

=> file registry

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STRUCTURE FILE UPDATES: 27 SEP 2007 HIGHEST RN 948530-59-4  
 DICTIONARY FILE UPDATES: 27 SEP 2007 HIGHEST RN 948530-59-4

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=> file zcaplus

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FILE COVERS 1907 - 28 Sep 2007 VOL 147 ISS 15  
 FILE LAST UPDATED: 27 Sep 2007 (20070927/ED)

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 'OBI' IS DEFAULT SEARCH FIELD FOR 'ZCAPLUS' FILE

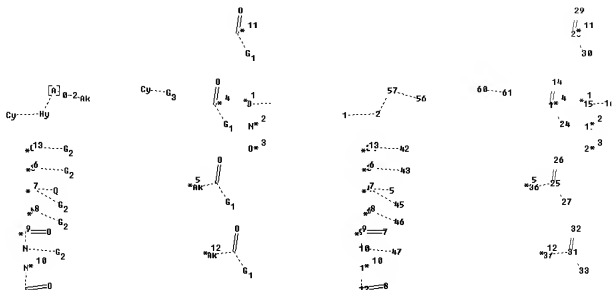
=> d stat que L88

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L13	30896	SEA FILE=REGISTRY	ABB=ON	PLU=ON	NSC3/ES
L14	805906	SEA FILE=REGISTRY	ABB=ON	PLU=ON	L12 OR L13
L15	464	SEA FILE=REGISTRY	ABB=ON	PLU=ON	NPC3/ES
L16	806370	SEA FILE=REGISTRY	ABB=ON	PLU=ON	(L13 OR L14 OR L15)
L19		STR			

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation:

Uploading L19b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 20 24 25 26 27 28 29 30  
 31 32 33 34 36 37 42 43 45 46 47 48 56 57 60 61

ring/chain nodes :

16 17

chain bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24

15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 60-61  
 exact/norm bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24

15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 60-61

G1:[\*1],[\*2],[\*3]

G2:[\*4],[\*5]

G3:[\*6],[\*7],[\*8],[\*9],[\*10],[\*11],[\*12],[\*13]

Connectivity :

2:2 M minimum RC ring/chain 20:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 20:CLASS

24:CLASS 25:CLASS

10/517214

26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS  
 34:CLASS  
 36:CLASS 37:CLASS 42:CLASS 43:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS  
 56:CLASS 57:CLASS  
 60:Atom 61:CLASS  
 Generic attributes :  
 60:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic

Element Count :

Node 2: Limited

N,N1-2

O,O0-1

S,S0-1

P,P0-1

C,C3

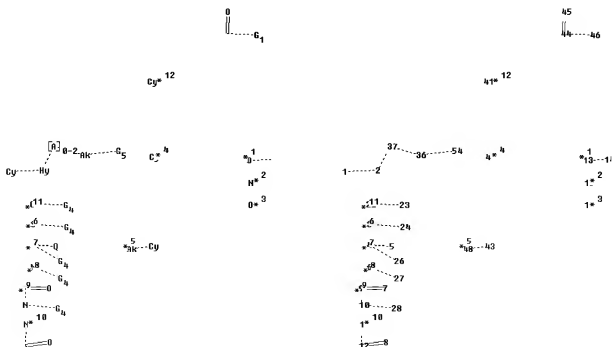
L21 71084 SEA FILE=REGISTRY SUB=L16 SSS FUL L19

L23 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation:

Uploading L23b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 18 22 23 24 26 27 28 29 36 37  
 41 42 43 44 45 46 48 54

```

ring/chain nodes :
 14 15
chain bonds :
1-2 2-37 3-24 4-5 4-26 6-27 7-9 8-12 9-10 10-28 11-12 12-29 13-14 22-
23
36-37 36-54 43-48 44-45 44-46
exact/norm bonds :
1-2 2-37 3-24 4-5 4-26 6-27 7-9 8-12 9-10 10-28 11-12 12-29 13-14 22-
23
36-37 36-54 43-48 44-45 44-46

```

G1:[\*1],[\*2],[\*3]

G4:[\*4],[\*5]

G5:[\*6],[\*7],[\*8],[\*9],[\*10],[\*11],[\*12]

```

Connectivity :
2:2 M minimum RC ring/chain 18:1 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 22:CLASS 23:CLASS
24:CLASS 26:CLASS
27:CLASS 28:CLASS 29:CLASS 36:CLASS 37:CLASS 41:Atom 42:Atom 43:Atom
44:CLASS 45:CLASS
46:CLASS 48:CLASS 54:CLASS
Generic attributes :
41:
Saturation : Unsaturated
Type of Ring System : Monocyclic
42:
Saturation : Unsaturated
Type of Ring System : Monocyclic
43:
Saturation : Unsaturated
Type of Ring System : Monocyclic

```

Element Count :  
Node 2: Limited

```

N,N1-2
O,O0-1
S,S0-1
P,P0-1
C,C3

```

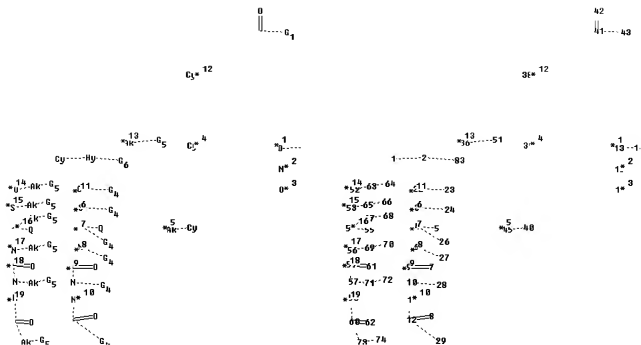
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L25      31522 SEA FILE=REGISTRY SUB=L21 SSS FUL L23
L29      STR

```

Structure diagram not available for display

Structure attributes must be viewed using STN Express query preparation:  
Uploading L29b.str



```

chain nodes :
1  2  3  4  5  6  7  8  9  10 11 12 13 18 22 23 24 26 27 28 29 36 38
39 40 41 42 43 45 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
66 67 68 69
70 71 72 73 74 83
ring/chain nodes :
14 15
chain bonds :
1-2  2-83  3-24  4-5  4-26  6-27  7-9  8-12  9-10  10-28  11-12  12-29  13-14  22-
23
36-51  40-45  41-42  41-43  52-63  53-65  54-55  54-67  56-69  57-59  57-71  58-60
59-61  60-62
60-73  63-64  65-66  67-68  69-70  71-72  73-74
exact/norm bonds :
1-2  2-83  3-24  4-5  4-26  6-27  7-9  8-12  9-10  10-28  11-12  12-29  13-14  22-
23
36-51  40-45  41-42  41-43  52-63  53-65  54-55  54-67  56-69  57-59  57-71  58-60
59-61  60-62
60-73  63-64  65-66  67-68  69-70  71-72  73-74

```

$$G1: [*1], [*2], [*3]$$

G4: [\*4], [\*5]

G5: [\*6], [\*7], [\*8], [\*9], [\*10], [\*11], [\*12]

G6: [\*13], [\*14], [\*15], [\*16], [\*17], [\*18], [\*19]

Connectivity :  
 2:2 M minimum RC ring/chain 18:1 E exact RC ring/chain 36:2 E exact RC ring/chain  
 45:2 E exact RC ring/chain 63:2 E exact RC ring/chain 65:2 E exact RC ring/chain  
 67:2 E exact  
 RC ring/chain 69:2 E exact RC ring/chain 71:2 E exact RC ring/chain 73:2 E exact  
 RC ring/chain

Match level :  
 1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
 10:CLASS  
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 22:CLASS 23:CLASS  
 24:CLASS 26:CLASS  
 27:CLASS 28:CLASS 29:CLASS 36:CLASS 38:Atom 39:Atom 40:Atom 41:CLASS  
 42:CLASS 43:CLASS  
 45:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS  
 58:CLASS 59:CLASS  
 60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS 67:CLASS  
 68:CLASS 69:CLASS  
 70:CLASS 71:CLASS 72:CLASS 73:CLASS 74:CLASS 83:CLASS

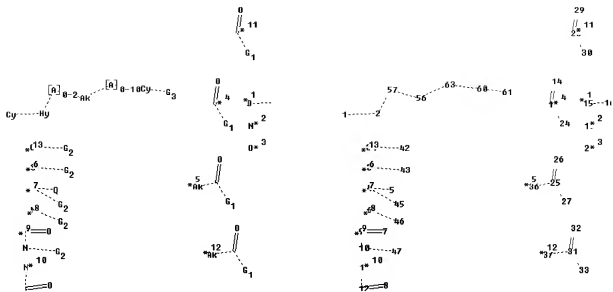
Generic attributes :  
 38:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic  
 39:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic  
 40:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic

Element Count :  
 Node 2: Limited  
 N,N1-2  
 O,O0-1  
 S,S0-1  
 P,P0-1  
 C,C3

L43 16848 SEA FILE=REGISTRY SUB=L25 SSS FUL L29  
 L46 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation:  
 Uploading L46b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 20 24 25 26 27 28 29 30  
31 32 33 34 36 37 42 43 45 46 47 48 56 57 60 61 63

ring/chain nodes :

16 17

chain bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24  
15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 56-63  
60-61 60-63

exact/norm bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24  
15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 56-63  
60-61 60-63

G1:[\*1],[\*2],[\*3]

G2:[\*4],[\*5]

G3:[\*6],[\*7],[\*8],[\*9],[\*10],[\*11],[\*12],[\*13]

Connectivity :

2:2 M minimum RC ring/chain 20:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 20:CLASS  
24:CLASS 25:CLASS  
26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

34:CLASS  
 36:CLASS 37:CLASS 42:CLASS 43:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS  
 56:CLASS 57:CLASS  
 60:Atom 61:CLASS 63:CLASS  
 Generic attributes :  
 60:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic

Element Count :  
 Node 2: Limited  
 N,N1-2  
 O,O0-1  
 S,S0-1  
 P,P0-1  
 C,C3

L48 8395 SEA FILE=REGISTRY SUB=L43 SSS FUL L46  
 L49 3169 SEA FILE=REGISTRY ABB=ON PLU=ON L48 AND NRS<4  
 L51 1312 SEA FILE=REGISTRY ABB=ON PLU=ON L49 AND 16.165.12/RID  
 L57 785 SEA FILE=REGISTRY ABB=ON PLU=ON 16.167.5/RID AND L49  
 L58 2091 SEA FILE=REGISTRY ABB=ON PLU=ON L51 OR L57  
 L63 5 SEA FILE=REGISTRY ABB=ON PLU=ON 16.171.9/RID AND L49  
 L64 2096 SEA FILE=REGISTRY ABB=ON PLU=ON L58 OR L63  
 L65 383 SEA FILE=ZCAPLUS ABB=ON PLU=ON L64  
 L66 108 SEA FILE=ZCAPLUS ABB=ON PLU=ON L65 AND J/DT  
 L67 275 SEA FILE=ZCAPLUS ABB=ON PLU=ON L65 AND P/DT  
 L68 26 SEA FILE=ZCAPLUS ABB=ON PLU=ON L66 AND PY<2003  
 L69 78 SEA FILE=ZCAPLUS ABB=ON PLU=ON L67 AND PD<20020524  
 L72 104 SEA FILE=ZCAPLUS ABB=ON PLU=ON L68 OR L69  
 L76 1945 SEA FILE=ZCAPLUS ABB=ON PLU=ON MAEKAWA T?/AU  
 L77 497 SEA FILE=ZCAPLUS ABB=ON PLU=ON HARA R?/AU  
 L78 263 SEA FILE=ZCAPLUS ABB=ON PLU=ON ODAKA H?/AU  
 L79 7435 SEA FILE=ZCAPLUS ABB=ON PLU=ON KIMURA H?/AU  
 L80 14 SEA FILE=ZCAPLUS ABB=ON PLU=ON MIZUFUNE H?/AU  
 L81 169 SEA FILE=ZCAPLUS ABB=ON PLU=ON FUKATSU K?/AU  
 L82 2 SEA FILE=ZCAPLUS ABB=ON PLU=ON L72 AND (L76 OR L77 OR L78 OR  
 L79 OR L80 OR L81)  
 L83 11 SEA FILE=ZCAPLUS ABB=ON PLU=ON L76 AND (L77 OR L78 OR L79 OR  
 L80 OR L81)  
 L84 1 SEA FILE=ZCAPLUS ABB=ON PLU=ON L77 AND (L78 OR L79 OR L80 OR  
 L81)  
 L85 15 SEA FILE=ZCAPLUS ABB=ON PLU=ON L78 AND (L79 OR L80 OR L81)  
 L86 1 SEA FILE=ZCAPLUS ABB=ON PLU=ON L79 AND (L80 OR L81)  
 L87 1 SEA FILE=ZCAPLUS ABB=ON PLU=ON L80 AND L81  
 L88 20 SEA FILE=ZCAPLUS ABB=ON PLU=ON (L82 OR L83 OR L84 OR L85 OR  
 L86 OR L87)

=> d ibib abs hitind L88 1-20

L88 ANSWER 1 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:392887 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 144:420976  
 TITLE: Steady state operation research in JT-60U with



AUTHOR(S):

extended pulse length  
 Fujita, T.; Akasaka, H.; Akino, N.; Ando, T.; Anno, K.; Arai, T.; Asakura, N.; *Ashikawa, N.*;  
 Azechi, H.; Azumi, M.; Bakhtiari, M.; Bruskin, L.; Chankin, A.; Cheng, C. Z.; Chiba, S.; Cho, T.; Chu, M.-S.; Ding, B. J.; Ebisawa, N.; Fujii, T.; Fujita, T.; Fukuda, T.; Fukuyama, A.; Funaba, H.; Furukawa, H.; Furukawa, M.; Gao, X.; Gohil, P.; Gorelenkov, N. N.; Gotoh, Y.; Grisham, L.; Haga, S.; Hamamatsu, K.; Hamano, T.; Hanada, K.; Hasegawa, K.; Hashizume, H.; Hatue, T.; Hatayama, A.; Hayashi, N.; Hayashi, T.; Higashijima, S.; Hino, T.; Hiranai, S.; Hirano, Y.; Hiratsuka, H.; Hirohata, Y.; Hobirk, J.; Honda, A.; Honda, Masao; Honda, Mitsuru; Horiike, H.; Hoshino, K.; Hosogane, N.; Hosoyama, H.; Ichige, H.; Ichimura, M.; Ida, K.; Ide, S.; Idehara, T.; Idei, H.; Idomura, Y.; Igarashi, K.; Iio, S.; Ikeda, Y.; Imai, T.; Inagaki, S.; Inoue, A.; Inoue, D.; Isayama, A.; Ishida, S.; Ishii, K.; Ishii, Y.; Ishikawa, M.; Ishimoto, Y.; Itami, K.; Itoh, Sanae; Itoh, Satoshi; Iwasaki, K.; Kajiwara, K.; Kajiyama, S.; Kakimoto, S.; Kamada, Y.; Kaminaga, A.; Kamiya, K.; Kashiwa, K.; Katayama, K.; Kato, T.; Kawai, M.; Kawamata, Y.; Kawano, Y.; Kawasaki, T.; Kawashima, H.; Kazawa, M.; Kikuchi, H.; Kikuchi, K.; Kikuchi, M.; Kimura, A.; *Kimura, H.*; Kishimoto, Y.; Kitamura, S.; Kitsunozaki, A.; Kiyono, K.; Kizu, K.; Kobatake, N.; Kobayashi, S.; Kobayashi, Y.; Kodama, K.; Koide, Y.; Kokubo, S.; Kokusen, S.; Komata, M.; Komori, A.; Kondoh, T.; Konishi, S.; Konoshima, S.; Kononov, S.; Koyama, A.; Koyanagitsu, M.; Kubo, H.; Kubo, T.; Kudoh, Y.; Kurihara, K.; Kurita, G.; Kuriyama, M.; Kusama, Y.; Kusanagi, N.; Lao, L. L.; Lee, S.; Li, J.; Litaudon, X.; Loarte, A.; Lonnroth, J.; Luce, T.; Maekawa, T.; Masaki, K.; Matsuda, T.; Matsukawa, M.; Matsumoto, T.; Matsunaga, G.; Matsuoka, M.; Matsuzawa, Y.; Meguro, K.; Mikhailivskii, A.; Mima, K.; Mironov, M. I.; Mitarai, O.; Miura, Yukitoshi; Miura, Yushi; Miya, N.; Miyamoto, S.; Miyato, N.; Miyo, Y.; Mogaki, K.; Morimoto, Y.; Morioka, A.; Moriyama, S.; Murakami, M.; Nagami, M.; Nagasaka, Y.; Nagasaki, K.; Nagase, Y.; Nagaya, S.; Nagayama, Y.; Naito, O.; Nakajima, N.; Nakamura, K.; Nakamura, Y.; Nakano, T.; Nakashima, Y.; Nakatsuka, M.; Narushima, Y.; Nazikian, R.; Neudatchin, S. V.; Ninomiya, H.; Nishikawa, M.; Nishimura, K.; Nishino, N.; Nishitani, T.; Nishiyama, T.; Noda, N.; Noto, K.; Oasa, K.; Obuchi, T.; Ogawa, H.; Ogawa, I.; Ogawa, Y.; Ohga, T.; Ohno, N.; Ohshima, K.; Oikawa, A.; Oikawa, T.; Okabayashi, M.; Okamoto, N.; Okano, F.; Okano, J.; Okano, K.; Okuno, K.; Omori, S.; Omori, Y.; Onishi, A.; Ono, Y.; Oohara, H.; Oshima, T.; Oya, Y.; Oyama, N.; Ozeki, T.; Parail, V.; Peterson, B. J.; Porter, G. D.; Rewoldt, G.; Sagara, A.; Saibene, G.; Saito, T.; Sakamoto, M.; Sakamoto, Y.; Sakasai, A.; Sakata, S.; Sakuma, T.; Sakurai, S.; Sasajima, T.; Sasao, M.; Sato, F.; Sato, M.; Sawada, K.; Sawahata, M.; Seimiya, M.; Seki, M.; Sharpe, J. P.; Shibahara, T.; Shimada, K.; Shimada, R.; Shimizu, A.; Shimizu, K.; Shimizu, M.; Shimono, M.; Shinozaki, K.; Shinozaki, S.; Shirai, H.; Shiraiwa, S.; Shtomi,

M.; Sudo, S.; Sueoka, M.; Sugawara, A.; Sugie, T.; Sugiyama, K.; Sunaooshi, H.; Suzuki, Masaei; Suzuki, Mitsuhiro; Suzuki, S.; Suzuki, T.; Suzuki, Yoshio; Suzuki, Yutaka; Takahashi, K.; Takahashi, M.; Takamura, S.; Takano, S.; Takase, Y.; Takechi, M.; Takei, N.; Takeishi, T.; Takenaga, H.; Takizuka, T.; Tamai, H.; Tamura, N.; Tanabe, T.; Tanai, Y.; Tanaka, J.; Tanaka, Satoru; Tanaka, Shigetoshi; Terakado, H.; Terakado, M.; Terakado, T.; Toi, K.; Tokuda, S.; Totsuka, T.; Toudo, Y.; Tsuchiya, K.; Tsugita, T.; Tsukahara, Y.; Tsuzuki, K.; Tuda, T.; Uda, T.; Ueda, Y.; Uehara, K.; Uehara, T.; Ueno, Y.; Uesugi, Y.; Umeda, N.; Urano, H.; Urata, K.; Ushigome, M.; Ushigusa, K.; Usui, K.; Wade, M.; Wakatani, M.; Wang, S.; Watari, T.; Yagi, M.; Yagi, Y.; Yagisawa, H.; Yagyu, J.; Yamada, H.; Yamamoto, T.; Yamamoto, Y.; Yamashita, Y.; Yamazaki, H.; Yamazaki, K.; Yatsu, K.; Yokokura, K.; Yonekawa, I.; Yoshida, Hajime; Yoshida, Hidetoshi; Yoshida, Hidetsugu; Yoshida, M.; Yoshida, N.; Yoshikawa, A.; Zushi, H.

## CORPORATE SOURCE:

Naka Fusion Research Establishment, Japan Atomic Energy Research Institute, Naka, Ibaraki, 311-0193, Japan

## SOURCE:

Nuclear Fusion (2006), 46(3), S3-S12  
CODEN: NUFLUA; ISSN: 0029-5515

## PUBLISHER:

Institute of Physics Publishing

## DOCUMENT TYPE:

Journal

## LANGUAGE:

English

## AB

Recent exptl. results for steady state operation research in JT-60U are presented with emphasis on extension of sustained duration of high performance. The duration of heating has been extended from 10 to 30 s, and plasma properties and dynamics have been investigated in a long time scale exceeding the current diffusion time and close to the wall saturation time on ELMy H-mode, high  $\beta_p$  H-mode and reversed shear H-mode regimes. The duration of sustainment of high beta and/or a large fraction of bootstrap current has been extended. The particle control with the saturated wall has been studied. Development of real-time control of q profile and effects of toroidal rotation on ELMs and the QH-mode are also discussed.

## CC 71-2 (Nuclear Technology)

## REFERENCE COUNT:

42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 2 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1243660 ZCAPLUS Full-text

DOCUMENT NUMBER: 143:467580

## TITLE:

Overview of JT-60U progress towards steady-state advanced tokamak

## AUTHOR(S):

Ide, S.; Akasaka, H.; Akino, N.; Ando, T.; Anno, K.; Arai, T.; Asakura, N.; Ashikawa, N.; Azechi, H.; Azumi, M.; Bakhtiari, M.; Bruskin, L.; Chankin, A.; Cheng, C. Z.; Chiba, S.; Cho, T.; Chu, M.-S.; Ding, B. J.; Ebisawa, N.; Fujii, T.; Fujita, T.; Fukuda, T.; Fukuyama, A.; Funaba, H.; Furukawa, H.; Furukawa, M.; Gao, X.; Gohil, P.; Gorelenkov, N. N.; Gotoh, Y.; Grisham, L.; Haga, S.; Hamamatsu, K.; Hamano, T.; Hanada, K.; Hasegawa, K.; Hashizume, H.; Hatae, T.; Hatayama, A.; Hayashi, N.; Hayashi, T.; Higashijima, S.; Hino, T.; Hiranai, S.; Hirano, Y.; Hiratsuka, H.; Hirohata, Y.; Hobirk, J.; Honda, A.; Honda, Masao; Honda, Mitsuru; Horiike, H.; Hoshino,

K.; Hosogane, N.; Hosoyama, H.; Ichige, H.; Ichimura, M.; Ida, K.; Idehara, T.; Idei, H.; Idomura, Y.; Igarashi, K.; Iio, S.; Ikeda, Y.; Imai, T.; Inagaki, S.; Inoue, A.; Inoue, D.; Isayama, A.; Ishida, S.; Ishii, K.; Ishii, Y.; Ishikawa, M.; Ishimoto, Y.; Itami, K.; Itoh, Sanae; Itoh, Satoshi; Iwasaki, K.; Kajiwara, K.; Kajiyama, S.; Kakimoto, S.; Kamada, Y.; Kaminaga, A.; Kamiya, K.; Kashiwa, K.; Katayama, K.; Kato, T.; Kawai, M.; Kawamata, Y.; Kawano, Y.; Kawasaki, T.; Kawashima, H.; Kazawa, M.; Kikuchi, H.; Kikuchi, K.; Kikuchi, M.; Kimura, A.; Kimura, H.; Kishimoto, Y.; Kitamura, S.; kitsunezaki, A.; Kiyono, K.; Kizu, K.; Kobatake, N.; Kobayashi, S.; Kobayashi, Y.; Kodama, K.; Koide, Y.; Kokubo, S.; Kokusen, S.; Komata, M.; Komori, A.; Kondoh, T.; Konishi, S.; Konoshima, S.; Kononov, S.; Koyama, A.; Koyanagitsu, M.; Kubo, H.; Kubo, T.; Kudoh, Y.; Kurihara, K.; Kurita, G.; Kuriyama, M.; Kusama, Y.; Kusanagi, N.; Lao, L. L.; Lee, S.; Li, J.; Litaudon, X.; Loarte, A.; Lonroth, J.; Luce, T.; Maekawa, T.; Masaki, K.; Matsuda, T.; Matsukawa, M.; Matsumoto, T.; Matsunaga, G.; Matsuoka, M.; Matsuzawa, Y.; Meguro, K.; Mikhailivskii, A.; Mima, K.; Mironov, M. I.; Mitarai, O.; Miura, Y.; Miura, Y. Y.; Miya, N.; Miyamoto, S.; Miyato, N.; Miyo, Y.; Mogaki, K.; Morimoto, Y.; Morioka, A.; Moriyama, S.; Murakami, M.; Nagami, M.; Nagasaki, K.; Nagasaki, Y.; Nagase, Y.; Nagaya, S.; Nagayama, Y.; Naito, O.; Nakajima, N.; Nakamura, K.; Nakamura, Y.; Nakano, T.; Nakashima, Y.; Nakatsuka, M.; Narushima, Y.; Nazikian, R.; Neudatchin, S. V.; Ninomiya, H.; Nishikawa, M.; Nishimura, K.; Nishino, N.; Nishitani, T.; Nishiyama, T.; Noda, N.; Noto, K.; Oasa, K.; Obuchi, T.; Ogawa, I.; Ogawa, H.; Ogawa, Y.; Ohga, T.; Ohno, N.; Ohshima, K.; Oikawa, A.; Oikawa, T.; Okabayashi, M.; Okamoto, N.; Okano, F.; Okano, J.; Okano, K.; Okuno, K.; Omori, S.; Omori, Y.; Onishi, A.; Ono, Y.; Oohara, H.; Oshima, T.; Oya, Y.; Oyama, N.; Ozeki, T.; Parail, V.; Peterson, B. J.; Porter, G. D.; Rewoldt, G.; Sagara, A.; Saibene, G.; Saito, T.; Sakamoto, M.; Sakamoto, Y.; Sakasai, A.; Sakata, S.; Sakuma, T.; Sakurai, S.; Sasajima, T.; Sasao, M.; Sato, F.; Sato, M.; Sawada, K.; Sawahata, M.; Seimiya, M.; Seki, M.; Sharpe, J. P.; Shibahara, T.; Shimada, K.; Shimada, R.; Shimizu, A.; Shimizu, K.; Shimizu, M.; Shimonono, M.; Shinohara, K.; Shinozaki, S.; Shirai, H.; Shiraiwa, S.; Shitomi, M.; Sudo, S.; Sueoka, M.; Sugawara, A.; Sugie, T.; Sugiyama, K.; Sunaoshi, H.; Suzuki, Masaei; Suzuki, Mitsuhiro; Suzuki, S.; Suzuki, T.; Suzuki, Yoshio; Suzuki, Yutaka; Takahashi, K.; Takahashi, M.; Takamura, S.; Takano, S.; Takase, Y.; Takechi, M.; Takei, N.; Takeishi, T.; Takenaga, H.; Takizuka, T.; Tamai, H.; Tamura, N.; Tanabe, T.; Tanai, Y.; Tanaka, J.; Tanaka, Satoru; Tanaka, Shigetoshi; Terakado, H.; Terakado, M.; Terakado, T.; Toi, K.; Tokuda, S.; Totsuka, T.; Toudo, Y.; Tsuchiya, K.; Tsugita, T.; Tsukahara, Y.; Tsuzuki, K.; Tuda, T.; Uda, T.; Ueda, Y.; Uehara, K.; Uehara, T.; Ueno, Y.; Uesugi, Y.; Umeda, N.; Urano, H.; Urata, K.; Ushigome, M.; Ushigusa, K.; Usui, K.; Wade, M.; Wakatani, M.; Wang,

S.; Watari, T.; Yagi, M.; Yagi, Y.; Yagisawa, H.; Yagyu, J.; Yamada, H.; Yamamoto, T.; Yamamoto, Y.; Yamashita, Y.; Yamazaki, H.; Yamazaki, K.; Yatsu, K.; Yokokura, K.; Yonekawa, I.; Yoshida, Hajime; Yoshida, Hidetoshi; Yoshida, Hidetsugu; Yoshida, M.; Yoshida, N.; Yoshikawa, A.; Zushi, H.

CORPORATE SOURCE: Naka Fusion Research Establishment, Japan Atomic Energy Research Institute, Naka, Ibaraki, 311-0193, Japan

SOURCE: Nuclear Fusion (2005), 45(10), S48-S62  
CODEN: NUFUAU; ISSN: 0029-5515

PUBLISHER: Institute of Physics Publishing

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Recent exptl. results from steady-state advanced tokamak (AT) research on JT-60U are presented with emphasis on time scales longer in comparison with the characteristic time scales in plasmas. To achieve this, modification of the controls for the operation, heating and diagnostics systems have been carried out. As a result, .apprx.60 s current flat top and a .apprx.30 s H-mode are obtained. The long pulse modification has opened a door into a new domain for JT-60U. High normalized beta ( $\beta_N$ ) of 2.3 is maintained for 22.3 s and 2.5 for 16.5 s in a high- $\beta_p$  H-mode plasma. A standard ELMy H-mode plasma has also been extended and changes in the wall recycling on the longer time scale have been unveiled. The development and investigation of plasmas relevant to AT operation have been continued in long discharges as well as in discharges where higher NB power is available ( $\leq 10$  s). Higher  $\beta_N$  (.apprx.3) is maintained for 6.2 s in a high- $\beta_p$  H-mode plasma. High bootstrap current fraction (FBS) of .apprx.75% is sustained for 7.4 s in a reversed shear plasma. Neo-classical tearing mode (NTM) suppression by localized ECCD is found to be more effective with ECRF injection preceding the mode saturation. The mode is suppressed with less power compared to the injection after the mode sets. The domain of the NTM suppression expts. is extended to the high- $\beta_N$  regime, and the effectiveness of  $m/n = 3/2$  mode suppression by ECCD is demonstrated at  $\beta_N$  .apprx. 2.5-3. Genuine tokamak plasma start up without a central solenoid is demonstrated. In a current hole region, it is shown that no scheme drives current in any direction. Detailed measurement of energetic ions in both space and energy showed dynamic change in the energetic ion profile due to collective instabilities. The impact of toroidal plasma rotation on ELM behavior is clarified in the grassy ELM and QH domains. Retention of hydrogen isotopes in the divertor tiles is analyzed.

CC 71-0 (Nuclear Technology)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 3 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:519930 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:64840

TITLE: A novel oxyiminoalkanoic acid derivative, TAK-559, activates human peroxisome proliferator-activated receptor subtypes

AUTHOR(S): Sakamoto, Junichi; *Fukuro, Hiroyuki*; Moriyama, Shinji; Imoto, Hiroshi; Momose, Yu; *Odaka, Hiroyuki*; Sawada, Hidekazu

CORPORATE SOURCE: Pharmaceutical Discovery Center, Pharmaceutical Research Division, Takeda Chemical Industries, Ltd., Osaka, Japan

SOURCE: European Journal of Pharmacology (2004), 495(1), 17-26  
CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB A novel oxyiminoalkanoic acid derivative, TAK-559, (E)-4-[4-[(5-methyl-2-phenyl-1, 3-oxazol-4-yl)methoxy]benzyloxyimino]-4-phenylbutyric acid, was synthesized as a candidate of a new type of insulin-sensitizing agent. We report here activation of human peroxisome proliferator-activated receptor (hPPAR) subtypes by TAK-559. In a transient transactivation assay, TAK-559 was a potent hPPAR $\gamma$  and hPPAR $\alpha$  agonist with EC50 values of 31 and 67 nM, resp. Furthermore, TAK-559 was a partial agonist for hPPAR $\gamma$  with about 68% of maximal activation obtained with rosiglitazone (5-(4-(2-(methyl(2-pyridinyl)amino)ethoxy) benzyl)-1,3-thiazolidine-2,4-dione), a thiazolidinedione derivative, which is known as a PPAR $\gamma$  agonist. PPAR $\delta$  was significantly activated at a high concentration (10  $\mu$ M) of TAK-559. Competition-binding assays using radiolabeled ligand indicated that the transactivation of all hPPAR subtypes by TAK-559 was due to direct binding of TAK-559 to each subtype. We also demonstrated that TAK-559 acts to recruit the coactivator SRC-1 to each of hPPAR $\gamma$  and hPPAR $\alpha$ , and to dissociate the corepressor NCoR from each of hPPAR $\gamma$  and hPPAR $\alpha$ . Taken together, we conclude that TAK-559 is a dual agonist for hPPAR $\gamma$  and hPPAR $\alpha$  with nearly equal EC50 values, a partial agonist for hPPAR $\gamma$ , and has a rather slight agonist activity for hPPAR $\delta$ .

CC 1-10 (Pharmacology)

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 4 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:252494 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:287404

TITLE: Preparation of five-membered heterocyclic compounds for treatment of obesity, diabetes, hyperlipidemia, etc.

INVENTOR(S): Momose, Yu; Takakura, Nobuyuki; Maekawa, Tsuyoshi; Odaka, Hiroyuki; Kimura, Hiroyuki

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 442 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

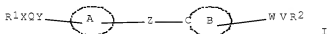
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004024705	A1	20040325	WO 2003-JP11511	20030909
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2004123732	A	20040422	JP 2003-316475	20030909
AU 2003262023	A1	20040430	AU 2003-262023	20030909
EP 1541564	A1	20050615	EP 2003-795338	20030909
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 US 2006135578 A1 20060622 US 2005-527426 20050310  
 PRIORITY APPLN. INFO.: JP 2002-264703 A 20020910  
 WO 2003-JP11511 W 20030909  
 OTHER SOURCE(S): MARPAT 140:287404  
 GI



AB The title compds. I [R1 is a group derived from an optionally substituted five-membered heterocycle; X, Y and V are each independently oxygen, sulfur, or the like; Q is a divalent hydrocarbon group having 1 to 20 carbon atoms; A is an aromatic ring which may have one to three addnl. substituents; Z is (CH<sub>2</sub>)<sub>n</sub>Z1 or Z1(CH<sub>2</sub>)<sub>n</sub> (wherein n is an integer of 0 to 8 and Z1 is oxygen, sulfur, or the like); B is a nitrogenous heterocycle which may have one to three addnl. substituents; W is a bond or a divalent hydrocarbon group having 1 to 20 carbon atoms; and R2 is hydrogen, cyano, PO(OR<sub>9</sub>)(OR<sub>10</sub>) (wherein R<sub>9</sub> and R<sub>10</sub> are each independently hydrogen or optionally substituted hydrocarbyl, or R<sub>9</sub> and R<sub>10</sub> may be united to form an optionally substituted ring), or the like] are prepared In a binding assay for the human PPAR  $\gamma$ 1 receptors, compds. of this invention showed IC<sub>50</sub> values of 7.4 nM to 7300 nM. Formulations are given.

IC ICM C07D263-32  
 ICS C07D413-12; C07D413-14; C07D417-14; C07D417-12; C07D401-14;  
 C07D403-12; C07F007-18; C07F009-6558; A61K031-422; A61K031-4439;  
 A61K031-427; A61K031-4245; A61K031-454; A61K031-5377; A61K031-675;  
 A61K031-695; A61K031-662; A61P003-06; A61P003-04

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 5 OF 20 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2004:144193 ZCAPLUS Full-text

DOCUMENT NUMBER: 141:925

TITLE: Studies on non-thiazolidinedione antidiabetic agents.  
 3. Preparation and biological activity of the metabolites of TAK-559

AUTHOR(S): Imoto, Hiroshi; Matsumoto, Mitsuharu; Odaka, Hiroyuki; Sakamoto, Junichi; Kimura, Hiroyuki; Nonaka, Masami; Kiyota, Yutaka; Momose, Yu

CORPORATE SOURCE: Pharmaceutical Research Division, Takeda Chemical Industries, Ltd., Osaka, 532-8686, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (2004), 52(1), 120-124

CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:925

AB Preparation and biol. activity of the metabolites of the potent antihyperglycemic and antihyperlipidemic agent, (E)-4-{4-[(5-methyl-2-phenyl-1,3-oxazol-4-yl)methoxy]benzyloxyimino}-4-phenylbutyric acid (TAK-559) (1), were investigated. Metabolites M-I (2), M-II (3), M-III (4) and M-IV (5) were synthesized and their biol. activities were evaluated by in vitro and in vivo expts. Compds. 2-4 activate human peroxisome proliferator-activated receptor gamma one (hPPAR $\gamma$ ) and hPPAR $\alpha$ , but their activities are weaker than those of TAK-559 (1). Compound 5 only activates hPPAR $\gamma$  weakly. TAK-559 (1) showed potent in vivo plasma glucose and triglyceride lowering activities in Wistar fatty rats after i.p. administration, while its metabolites (2-5) showed comparatively weak activities.

CC 1-10 (Pharmacology)

Section cross-reference(s): 28

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 6 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:951003 ZCAPLUS Full-text

DOCUMENT NUMBER: 140:16723

TITLE: Preparation of 1,2-azole derivatives with hypoglycemic and hypolipidemic activity

INVENTOR(S): Maekawa, Tsuyoshi; Hara, Ryoma; Odaka, Hiroyuki; Kimura, Hiroyuki; Mizutane, Hideya; Fukatsu, Kohji

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan; Takeda Pharmaceutical Company Limited

SOURCE: PCT Int. Appl., 564 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

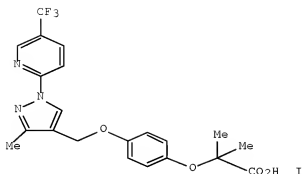
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003099793	A1	20031204	WO 2003-JP6389	20030522
WO 2003099793	A8	20041229		
WO 2003099793	A9	20050210		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2487315	A1	20031204	CA 2003-2487315	20030522
AU 2003241173	A1	20031212	AU 2003-241173	20030522
JP 2004277397	A	20041007	JP 2003-144984	20030522
EP 1513817	A1	20050316	EP 2003-730575	20030522
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 2006148858	A1	20060706	US 2005-517214	20050301
PRIORITY APPLN. INFO.:			JP 2002-151405	A 20020524
			JP 2002-287161	A 20020930
			JP 2003-16748	A 20030124
			WO 2003-JP6389	W 20030522

OTHER SOURCE(S): MARPAT 140:16723

GI



- AB 1,2-Azole derivs. A-B-Xa-Ya-Xb-Yb-C-Xc-Yc-C(:O)-R (I; e.g. II) wherein ring A optionally has 1-3 substituents; ring B is a 1,2-azole ring which may further have 1 to 3 substituents; Xa, Xb and Xc are the same or different and each is a bond, -O-, -S- and the like; Ya is a divalent aliphatic hydrocarbon residue having 1-20 C atoms; Yb and Yc are the same or different and each is a bond or a divalent aliphatic hydrocarbon residue having 1-20 C atoms; ring C is a monocyclic aromatic ring which may further have 1 to 3 substituents; and R = -OR<sub>4</sub> (R<sub>4</sub> is H atom or (un)substituted hydrocarbon group) and the like, or a salt thereof or a prodrug thereof is useful as an agent for the prophylaxis or treatment of diabetes and the like. Hypoglycemic and hypolipidemic actions in mice are tabulated for about 50 examples of I; e.g. a 53 % rate of decrease in blood glucose level in the presence of 0.005 % [2-[3-[3-isopropyl-1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-4-yl]propoxy]-3-methylphenyl]acetic acid and a 77 % rate of decrease in blood triglyceride level in the presence of 0.005 % 2-methyl-2-[4-[3-methyl-1-[5-(trifluoromethyl)-2-pyridyl]-1H-pyrazol-4-ylmethoxy]phenoxy]propionic acid when the level (glucose or triglyceride) of the non-treated group is taken as 100 %. Plasma anti-arteriosclerosis index-enhancing action in mice is tabulated for 34 examples of I, e.g. 25 % for [3-methoxy-2-[3-[3-propyl-1-[5-(trifluoromethyl)-2-pyridyl]-1H-pyrazol-4-yl]propoxy]phenyl]acetic acid. PPAR $\gamma$ -RXR $\alpha$  and PPAR $\delta$ -RXR $\alpha$  heterodimer ligand activity is tabulated for 59 and 80 examples, resp., of I, e.g. EC<sub>50</sub> = 3.8 nM for PPAR $\gamma$ -RXR $\alpha$  for [2-[3-[3-cyclohexyl-1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-4-yl]propoxy]-3-methylphenyl]acetic acid. Nearly 400 example preps. of I and 351 example preps. of intermediates are included. For example, [4-[3-[3-[4-(trifluoromethyl)phenyl]-5-isoxazolyl]propoxy]phenyl]acetic acid was obtained in 25 % yield from a mixture of 3-[3-[4-(trifluoromethyl)phenyl]-5-isoxazolyl]-1-Pr methanesulfonate, NaI, Me 2-(4-hydroxyphenyl)acetate, K<sub>2</sub>CO<sub>3</sub> and DMF; details of the preparation of the mesylate are also given.
- IC ICM C07D231-12  
ICS C07D261-08; C07D401-04; C07D413-12; A61K031-4155; A61K031-415; A61K031-42; A61K031-422; A61K031-4439; C07D231-14; C07D231-20; C07D231-22; C07D401-14; C07D403-04; C07D403-14
- CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 63

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



L88 ANSWER 7 OF 20 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2003:270930 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 139:46234  
 TITLE: Activation of human PPAR subtypes by Pioglitazone  
 AUTHOR(S): Kimura, Hiroyuki; Sakamoto, Junichi;  
 Moriyama, Shinji; Oda, Hiroyuki; Momose,  
 Yu; Sugiyama, Yasuo; Ikeda, Hitoshi; Sawada, Hidekazu  
 CORPORATE SOURCE: Discovery Research Laboratories IV, Pharmaceutical  
 Discovery Research Division, Takeda Chemical  
 Industries, Ltd., Yodogawa-ku, Osaka, 532-8686, Japan  
 SOURCE: Medical Science Symposia Series (2002), 18(Peroxisome  
 Proliferator Activated Receptors), 41-47  
 CODEN: MSSYEI; ISSN: 0928-9550  
 PUBLISHER: Kluwer Academic Publishers  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 AB A review. Pioglitazone activates both human peroxisome proliferator activated  
 receptor  $\gamma$  (hPPAR $\gamma$ ) and hPPAR $\alpha$ . Pioglitazone improves insulin sensitivity in  
 patients with type 2 diabetes, and significantly decreased mean triglycerides  
 levels and increased high-d. lipoprotein-cholesterol levels in both  
 monotherapy and in combination with sulfonylureas, metformin or insulin. The  
 good effects for lipid profile of Pioglitazone are partly mediated by PPAR $\alpha$ .  
 CC 1-0 (Pharmacology)  
 Section cross-reference(s): 2, 14  
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 L88 ANSWER 8 OF 20 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2003:5954 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 138:89798  
 TITLE: Preparation of 4-(phenoxyethyl)-5-methyloxazole  
 derivatives as antidiabetic agents  
 INVENTOR(S): Momose, Yu; Maekawa, Tsuyoshi; Oda,  
 Hiroyuki; Kimura, Hiroyuki  
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 99 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003000685	A1	20030103	WO 2002-JP6107	20020619
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002315787	A1	20030108	AU 2002-315787	20020619
JP 2003073377	A	20030312	JP 2002-178851	20020619
PRIORITY APPLN. INFO.:			JP 2001-186952	A 20010620
			WO 2002-JP6107	W 20020619
OTHER SOURCE(S):		MARPAT 138:89798		
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title compds. I [wherein R1 = (un)substituted (hetero)hydrocarbonyl; X and Y = independently a bond, O, S, CO, CS, SO, SO2, CR3OR4, NR5, CONR6, or NR6CO; R3 and R6 = independently H or (un)substituted hydrocarbonyl; R4 = H or protecting group of OH; R5 = H, (un)substituted hydrocarbonyl, or protecting group of amino; Q and W = independently (CH2)m; m = 1-20; ring A = (un)substituted aryl; n = 1-8; ring B = (un)substituted 5-membered ring containing N; V = a bond, O, S, SO, SO2, NR7, or NR7CO; R7 = H or (un)substituted hydrocarbonyl; R2 = PO(OR8)(OR9), COR10, (un)substituted hydrocarbonyl, or heteroaryl; R8 and R9 = independently H or (un)substituted hydrocarbonyl; or R8 and R9 together form (un)substituted ring; R10 = H or (un)substituted hydrocarbonyl; with provisos] and salts or prodrugs thereof are prepared as antidiabetic agents. For example, the acid II (prepn given) was treated with iso-Bu chlorocarbonate in THF in the presence of 4-methylmorpholine, followed by the addition of THF solution of H2NNH2•H2O. The above product was then reacted with tri-Me orthobutyrate in 1,4-dioxane in the presence of methanesulfonic acid to afford the target compd III (70%). III showed IC50 of 0.034 µM and 0.15 µM against peroxisome proliferator-activated receptors (PPAR) γ and PPARγ-RXRα, resp. A capsule formulation containing III as an active ingredient was also described.

IC ICM C07D413-12

ICS C07D413-14; C07D417-14; A61K031-422; A61K031-427; A61K031-4439;  
A61P003-04; A61P003-06; A61P003-10

CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 63

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 9 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:5768 ZCAPLUS Full-text

DOCUMENT NUMBER: 138:66691

TITLE: Function regulator for retinoid relative receptor

INVENTOR(S): Maekawa, Tsuyoshi; Kunitomo, Jun;

Otake, Hiroyuki; Kimura, Hiroyuki

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

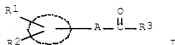
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003000249	A1	20030103	WO 2002-JP6349	20020625
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

10/517214

AU 2002315885 A1 20030108 AU 2002-315885 20020625  
 JP 2003081832 A 20030319 JP 2002-184633 20020625  
 EP 1405636 A1 20040407 EP 2002-741287 20020625  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 US 2004157881 A1 20040812 US 2003-481033 20031216  
 US 7223791 B2 20070529  
 PRIORITY APPLN. INFO.: JP 2001-192601 A 20010626  
 WO 2002-JP6349 W 20020625  
 OTHER SOURCE(S): MARPAT 138:66691  
 GI



AB A function regulator for retinoid relative receptors (excluding retinoic acid receptors) which contains a compound represented by the general formula I [one of R1 and R2 = monocyclic aromatic hydrocarbon group (substituted) or monocyclic aromatic heterocyclic group containing one heteroatom and the other represents hydrogen (substituted), etc.; B = 5- or 6-membered heterocycle (excluding 1,3-azole); A = aromatic hydrocarbon group (substituted) or aromatic heterocyclic group (substituted); and R3 = hydrogen, etc.] or a salt thereof. The regulator is useful as a preventive/remedy for diabetes, hyperlipidemia, impaired glucose tolerance, etc.

IC ICM A61K031-341  
 ICS A61K031-381; A61K031-40; A61K031-4196; A61K031-42; A61K031-4245;  
 A61K031-433; A61K031-4418; A61K031-625; A61K045-00; A61P003-00;  
 A61P003-04; A61P003-06; A61P003-10; A61P005-50; A61P043-00;  
 C07D207-337; C07D307-54; C07D213-61; C07D249-08

CC 1-10 (Pharmacology)

Section cross-reference(s): 28, 63

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 10 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:754366 ZCAPLUS Full-text

DOCUMENT NUMBER: 137:279197

TITLE: Preparation of five-membered heterocyclic alkanolic acid derivatives as remedies for diabetes and hyperlipidemia

INVENTOR(S): Momose, Yu; Maekawa, Tsuyoshi; Imoto, Hiroshi; Odaka, Hiroyuki; Kimura, Hiroyuki

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 165 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076959	A1	20021003	WO 2002-JP2741	20020322

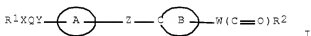
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 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,  
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,  
 UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG

AU 2002239023	A1	20021008	AU 2002-239023	20020322
JP 2002348281	A	20021204	JP 2002-81621	20020322
EP 1394154	A1	20040303	EP 2002-705433	20020322
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004063775	A1	20040401	US 2003-472159	20030922
US 7241785	B2	20070710		

PRIORITY APPLN. INFO.: JP 2001-85572 A 20010323  
 WO 2002-JP2741 W 20020322

OTHER SOURCE(S): MARPAT 137:279197  
 GI



AB The title compds. I [R<sup>1</sup> represents an optionally substituted five-membered heterocyclic group; X represents a bond, etc.; Q represents a C1-20 divalent hydrocarbon group; Y represents a bond, etc.; ring A represents an aromatic ring optionally having one to three substituents; Z represents (CH<sub>2</sub>)<sub>n</sub> (n is an integer of 0 to 8 and Z<sup>1</sup> represents a bond, etc.), etc.; ring B represents a five-membered heterocycle optionally having one to three substituents; W represents a C1-20 divalent saturated hydrocarbon group; and R<sup>2</sup> represents OH, etc.] are prepared A process for preparing I is disclosed. Compds. of this invention at 0.01% in feed given to diabetic mice for 4 days caused 43% to 42% decrease of blood sugar. Formulations are given.

IC ICM C07D263-32  
 ICS C07D263-34; C07D413-12; C07D413-14; C07D417-12; A61K031-421;  
 A61K031-422; A61K031-427; A61K031-4439; A61K031-4709; A61K031-5377;  
 A61P003-06; A61P003-10; A61P043-00

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 1, 63

REFERENCE COUNT: 88 THERE ARE 88 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 11 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:521714 ZCAPLUS Full-text

DOCUMENT NUMBER: 137:109278

TITLE: Preparation of alkanolic acid derivatives as preventives and/or remedies for diabetes, hyperlipidemia, impaired glucose tolerance, and retinoid-related receptor regulators

INVENTOR(S): Momose, Yu; Maekawa, Tsuyoshi; Takakura, Nobuyuki; Odaka, Hiroyuki; Kimura, Hiroyuki; Ito, Tatsuya

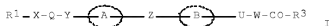
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 235 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002053547	A1	20020711	WO 2001-JP11611	20011228
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2433573	A1	20020711	CA 2001-2433573	20011228
AU 2002217550	A1	20020716	AU 2002-217550	20011228
JP 2002265457	A	20020918	JP 2001-402099	20011228
EP 1357115	A1	20031029	EP 2001-272544	20011228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004058965	A1	20040325	US 2003-465938	20030626
US 7238716	B2	20070703		
PRIORITY APPLN. INFO.:			JP 2000-402648	A 20001228
			WO 2001-JP11611	W 20011228

OTHER SOURCE(S): MARPAT 137:109278

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AB Alkanoic acid derivs. represented by the general formula (I) or salts thereof [wherein R<sup>1</sup> = optionally substituted five-membered aromatic heterocyclic group; X = a bond, O, S, CO, C(:S), CR<sub>4</sub>(OR<sub>6</sub>), NR<sub>6</sub> (wherein R<sub>4</sub> = H, optionally substituted hydrocarbyl; R<sub>5</sub> = H, hydroxy-protecting group; R<sub>6</sub> = H, optionally hydrocarbyl, amino-protecting group); Q = C1-20 divalent hydrocarbon group; Y = bond, O, S, S(:O), SO<sub>2</sub>, NR<sub>7</sub>, CONR<sub>7</sub>, NR<sub>7</sub>CO, (wherein R<sub>7</sub> = H, optionally substituted hydrocarbon group, amino-protecting group); ; ring A = an aromatic ring which may have one to three substituents; Z = (CH<sub>2</sub>)<sub>n</sub>-Z<sub>1</sub> (wherein n = an integer of 1 to 8; Z<sub>1</sub> = O, S, SO, SO<sub>2</sub>, NR<sub>16</sub>; wherein R<sub>16</sub> = H, optionally substituted hydrocarbon group); ring B = an optionally mono- to tri-substituted pyridine, benzene, or naphthalene ring; U = a bond, O, S, SOP, SO<sub>2</sub>; W = C1-20 divalent hydrocarbon group; R<sub>3</sub>; R<sub>3</sub> = OH, optionally substituted hydrocarbyloxy, NR<sub>9</sub>R<sub>10</sub> (wherein R<sub>9</sub>, R<sub>10</sub> = H, optionally substituted hydrocarbyl, heterocyclyl, or acyl; or R<sub>9</sub> and R<sub>10</sub> are linked to each other to form a ring); with the proviso that when B is an optionally mono- to tri-substituted benzene ring, U is a bond] are prepared Also disclosed are preventives and/or remedies for diabetes, hyperlipidemia, and impaired glucose tolerance, retinoid-related receptor regulators, ligands for peroxisome-proliferator response receptor and retinoid X receptor, insulin resistance improvers containing the compds. I or salts or prodrugs thereof. Thus, a 40%

toluene solution (1.74 g) of di-Et azodicarboxylate was added dropwise to a mixture of 3-(5-methyl-2-phenyl-4-oxazolymethoxy)-5- isoxazolymethanol 0.859, Me 2-(2-hydroxyphenyl)acetate 0.499, Ph3P 0.944, and 15 mL THF at room temperature and stirred for 15 h to give Me 2-[2-[3-(5-methyl-2-phenyl-4-oxazolymethoxy)-5- isoxazolymethoxy]phenyl]acetate as an oil which was dissolved in MeOH/THF (1/1, 20 mL), treated with 10 mL 1 N aqueous NaOH, stirred at room temperature for 15 h, and acidified with 1 N aqueous HCl to give 52% 2-[2-[3-(5-methyl-2- phenyl-4-oxazolymethoxy)-5- isoxazolymethoxy]phenyl]acetic acid (II). When a feed containing 0.005% II was fed freely to type II diabetic mice for 4 days, the blood sugar and lipid level was lowered by 54 and 96%, resp. A capsule and a tablet formulation containing 2-[2-ethoxy-5-[4-[(5-methyl-2- phenyl-4-oxazolyl)methoxy]benzyloxy]phenyl]acetic acid Me ester were prepared

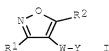
IC ICM C07D263-32  
ICS C07D413-12; C07D413-14; C07D263-40; C07D417-12; C07D413-06;  
C07D413-12; C07D401-04; C07D401-14; C07D277-32; C07D413-04;  
A61K031-421; A61K031-4439; A61K031-422; A61K031-427; A61K031-4245;  
A61K031-426; A61P003-10; A61P003-06; A61P013-12  
CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 63  
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 12 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2002:391693 ZCAPLUS Full-text  
DOCUMENT NUMBER: 136:401786  
TITLE: Preparation of isoxazole derivatives for prevention  
and treatment of diabetes  
INVENTOR(S): Momose, Yu; Maekawa, Tsuyoshi; Asakawa,  
Tomoko; Sakai, Nozomu  
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
SOURCE: PCT Int. Appl., 270 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040458	A1	20020523	WO 2001-JP10001	20011116 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2429426	A1	20020523	CA 2001-2429426	20011116 <--
AU 2002015218	A5	20020527	AU 2002-15218	20011116
JP 2002212171	A	20020731	JP 2001-352466	20011116
EP 1340749	A1	20030903	EP 2001-983808	20011116
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2004048908	A1	20040311	US 2003-416658	20030514
US 7022725	B2	20060404		
US 2006084690	A1	20060420	US 2005-295058	20051206
PRIORITY APPLN. INFO.:			JP 2000-350869	A 20000117

OTHER SOURCE(S):  
GI

MARPAT 136:401786



AB Described are preventives or remedies for diabetes containing compds. of the general formula (I) or their salts or prodrugs thereof [wherein one of R1 and R2 is hydrogen or a substituent and the other is an optionally substituted cyclic group; W is a free valency or a divalent aliphatic hydrocarbon group; and Y is a group represented by the general formula OR3 (wherein R3 is hydrogen, optionally substituted hydrocarbyl, an optionally substituted heterocyclic group, or optionally substituted acyl) or carboxyl which may be converted into an ester or an amide]. These compds. have excellent insulin secretion-promoting and blood sugar-decreasing effects and low toxicity and are useful as drugs, particularly preventive and therapeutic agents for diabetes and diabetic complication. Thus, reduction of 3-[5-(3,4-dichlorophenyl)-4-isoxazolyl]propionic acid Me ester (preparation given) by diisobutylaluminum hydride in hexane/THF at room temperature for 1 h gave 97% 3-[5-(3,4-chlorophenyl)-4-isoxazolyl]propanol (II). II at 30 mg/kg p.o. was administered to rats and after 60 min, the rats were fed with glucose at 2 g/kg p.o. After 30 min, the blood sample was taken and the blood sugar level measured was 75% of the control. A capsule and tablet formulation containing II were formulated.

IC ICM C07D261-08

ICS C07D417-12; C07D413-12; C07D413-06; C07D413-14; C07D413-04;  
A61K031-42; A61K031-675; A61K031-427; A61K031-4709; A61K031-496;  
A61K031-454

CC 28-18 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 63

IT	430529-56-9P	430529-57-0P	430529-59-2P	430529-62-7P	430529-67-2P
	430529-69-4P	430529-70-7P	430529-71-8P	430529-72-9P	430529-73-0P
	430529-74-1P	430529-75-2P	430529-76-3P	430529-77-4P	430529-78-5P
	430529-79-6P	430529-80-9P	430529-81-0P	<del>430529-82-1P</del>	
	430529-83-2P	430529-84-3P	<del>430529-85-4P</del>	430529-86-5P	
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of isoxazole derivs. having insulin secretion promoting and blood sugar decreasing effects for prevention and treatment of diabetes and diabetes complication)

IT	430533-24-7P	430533-26-9P	430533-28-1P	430533-30-5P	430533-32-7P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of isoxazole derivs. having insulin secretion promoting and



blood sugar decreasing effects for prevention and treatment of diabetes and diabetes complication)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 13 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:149264 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 136:340623

TITLE: Novel 5-Substituted 2,4-Thiazolidinedione and 2,4-Oxazolidinedione Derivatives as Insulin Sensitizers with Antidiabetic Activities

AUTHOR(S): Momose, Yu; Maekawa, Tsuyoshi; Yamano, Tohru; Kawada, Mitsuru; Odaka, Haruyuki; Ikeda, Hitoshi; Sohda, Takashi

CORPORATE SOURCE: Medicinal Chemistry Research Laboratories II, Pharmacology Research Laboratories II, and Strategic Research Planning, Pharmaceutical Research Division, Takeda Chemical Industries Ltd., Yodogawaku, Osaka, 532-8686, Japan

SOURCE: Journal of Medicinal Chemistry (2002), 45(7), 1518-1534

CODEN: JMCMAR; ISSN: 0022-2623

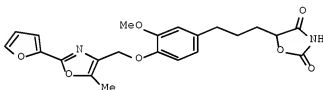
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:340623

GI



I

AB 5-( $\alpha$ -Azolyalkoxyphenylalkyl)-2,4-thiazolidinones and -2,4-oxazolidinones such as furylmethyloxazolylmethoxymethoxyphenylpropyl oxazolidinedione I were prepared as potential antidiabetic and antihyperlipidemic agents. Many of the 2,4-thiazolidinediones and 2,4-oxazolidinones showed potent glucose- and lipid-lowering activities. The antidiabetic activities of the 2,4-oxazolidinediones were superior to those of the 2,4-thiazolidinediones. Both enantiomers of I, one of the most interesting compds. in terms of activity, were synthesized by using an asym. O-acetylation of the corresponding  $\alpha$ -hydroxyvalerate with immobilized lipase, followed by cyclization of the oxazolidinedione ring. The (R)-(+)-enantiomer of I showed more potent glucose-lowering activity [ED<sub>25</sub> = 0.561 mg/kg/d] than either the (S)-(-)-enantiomer (ED<sub>25</sub> > 1.5 mg/kg/d) or pioglitazone (ED<sub>25</sub> = 6 mg/kg/d) in KKAY mice. (+)- (R)-I also exhibited a 10-fold more potent antidiabetic activity (ED<sub>25</sub> = 0.05 mg/kg/d) than pioglitazone (ED<sub>25</sub> = 0.5 mg/kg/d) in Wistar fatty rats. The antidiabetic effects of I are related to its activity as a potent agonist for peroxisome proliferator-activated receptor  $\gamma$  (PPAR- $\gamma$ ) (EC<sub>50</sub> = 8.87 nM). The

crystal structures of intermediates in the synthesis of nonracemic thiazolidinediones were determined by X-ray crystallog.

CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 75

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 14 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:19837 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 136:350405

TITLE: Novel 5-substituted-1H-tetrazole derivatives as potent glucose and lipid lowering agents

AUTHOR(S): Momose, Yu.; Maekawa, Tsuyoshi; Odaka, Hiroyuki; Ikeda, Hitoshi; Sohma, Takashi

CORPORATE SOURCE: Medicinal Chemistry Research Laboratories II, Takeda Chemical Industries, Ltd., Chuo-ku. Osaka, 540-8645, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (2002), 50(1), 100-111

CODEN: CPBTAL; ISSN: 0009-2363

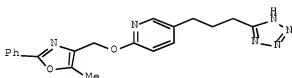
PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:350405

GI



I

AB A series of 5-(4-alkoxyphenylalkyl)-1H-tetrazole derivs. containing an oxazole-based group at the alkoxy moiety was prepared; the antidiabetic and antihyperlipidemic effects of members of the series were evaluated in two genetically obese and diabetic animal models. The tetrazole compds. were prepared using the cycloaddns. of azides with the corresponding nitriles. Many of the 5-(4-alkoxyphenylalkyl)-1H-tetrazoles showed potent glucose and lipid lowering activities in KKAY mice. Methylphenyloxazolylmethoxypyridylpropyltetrazole I had potent glucose lowering activity (ED25 = 0.0839 mg·kg<sup>-1</sup>·d<sup>-1</sup>), being 72 times more active than pioglitazone hydrochloride (ED25 = 6.0 mg·kg<sup>-1</sup>·d<sup>-1</sup>); in addition, I also exhibited strong antihyperlipidemic activity (ED25 = 0.0277 mg·kg<sup>-1</sup>·d<sup>-1</sup>) in Wistar fatty rats. The antidiabetic activity of I is likely related to its potent agonistic activity for peroxisome proliferator-activated receptor  $\gamma$  (PPAR $\gamma$ ) (EC50 = 6.75 nM).

CC 1-10 (Pharmacology)

Section cross-reference(s): 28

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

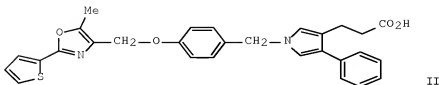
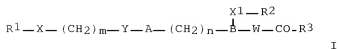
L88 ANSWER 15 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:396864 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 135:19632  
 TITLE: Preparation of pyrazolyl- and pyrrolylalkanoic acid derivatives with hypoglycemic and hypolipidemic activity  
 INVENTOR(S): Momose, Yu; Maekawa, Tsuyoshi; Odaka, Hiroyuki; Kimura, Hiroyuki  
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 375 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001038325	A1	20010531	WO 2000-JP7877	20001109 <--
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2390923	A1	20010531	CA 2000-2390923	20001109 <--
JP 2001226350	A	20010821	JP 2000-347462	20001109 <--
JP 3723071	B2	20051207		
BR 2000015466	A	20020806	BR 2000-15466	20001109
EP 1228067	A1	20020807	EP 2000-974857	20001109
EP 1228067	B1	20040714		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200203165	A2	20030128	HU 2002-3165	20001109
JP 2003137865	A	20030514	JP 2002-315096	20001109
NZ 519238	A	20031128	NZ 2000-519238	20001109
AT 271049	T	20040715	AT 2000-974857	20001109
EP 1457490	A1	20040915	EP 2004-76508	20001109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PT 1228067	T	20041130	PT 2000-974857	20001109
ES 2225252	T3	20050316	ES 2000-974857	20001109
AU 780948	B2	20050428	AU 2001-13031	20001109
RU 2252939	C2	20050527	RU 2002-115263	20001109
NO 2002002108	A	20020708	NO 2002-2108	20020502
MX 2002PA04647	A	20021031	MX 2002-PA4647	20020509
US 7179823	B1	20070220	US 2002-129702	20020509
IN 2002KN00645	A	20050311	IN 2002-KN645	20020513
ZA 2002003824	A	20031015	ZA 2002-3824	20020514
HK 1045991	A1	20041210	HK 2002-106297	20020827
PRIORITY APPLN. INFO.:				
			JP 1999-320317	A 19991110
			JP 1999-352237	A 19991210
			JP 1999-352236	A 19991210
			EP 2000-974857	A3 20001109
			JP 2000-347462	A3 20001109
			WO 2000-JP7877	W 20001109

OTHER SOURCE(S): MARPAT 135:19632  
 GI



AB Title compds. (I) [wherein R<sup>1</sup> = (un)substituted hydrocarbon or heterocycle; X = bond, O, S, CO, CS, CR<sub>4</sub>(OR<sub>5</sub>), or NR<sub>6</sub>; R<sub>4</sub> and R<sub>6</sub> = independently H or (un)substituted hydrocarbon; R<sub>5</sub> = H or hydroxyl protective group; m = 0-3; Y = O, S, SO, SO<sub>2</sub>, NR<sub>7</sub>, CONR<sub>7</sub>, or NR<sub>7</sub>CO; R<sub>7</sub> = H or (un)substituted hydrocarbon; A = (un)substituted aromatic ring; n = 1-8; B = (un)substituted N-containing 5-membered heterocycle; X<sup>1</sup> = bond, O, S, SO, SO<sub>2</sub>, OSO<sub>2</sub>, or NR<sub>16</sub>; R<sub>16</sub> = H or (un)substituted hydrocarbon; R<sub>2</sub> = H or (un)substituted hydrocarbon or heterocycle; W = bond or hydrocarbon; R<sub>3</sub> = OR<sub>8</sub> or NR<sub>9</sub>R<sub>10</sub>; R<sub>8</sub> = H or (un)substituted hydrocarbon; R<sub>9</sub> and R<sub>10</sub> = independently H or (un)substituted hydrocarbon or heterocycle; or R<sub>9</sub> and R<sub>10</sub> together with the N to which they are attached may form a ring] were prepared as retinoid-related receptor function regulating agents or insulin resistance improving agents. For example, Et 3-[1-(4-hydroxybenzyl)-4-phenyl-3-pyrrolyl]propionate and 4-chloromethyl-5-methyl-2-(2-thienyl)oxazole were coupled in the presence of K<sub>2</sub>CO<sub>3</sub> in DMF and treated with HCl to give II (77%). At a concentration of 0.001%, II reduced hypoglycemic and hypolipidemic action by 48% and 70%, resp., lowered total cholesterol by 16%, and increased the plasma anti-arteriosclerosis index by 12% compared to non-treatment groups of mice. In addition, II showed potent PPARγ-RXRα heterodimer ligand activity with EC<sub>50</sub> of 1.5 nM. I are useful for the prevention or treatment of diabetes mellitus, hyperlipidemia, impaired glucose tolerance, inflammatory diseases, and arteriosclerosis.

IC ICM C07D409-12  
ICS C07D413-12; C07D401-14; C07D405-12; C07D231-12; C07D401-12;  
C07D417-14; C07D409-14; A61K031-501; A61P003-00

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1

IT 3256-88-0P, 2-Methyl-5-phenylpyridine 4634-09-7P 5229-40-3P  
80457-61-0P 111770-91-3P 116140-28-4P 146775-28-2P,  
2-Chloromethyl-5-phenylpyridine 162614-73-5P 177275-37-5P  
177976-31-7P, 3-Chloromethyl-5-phenylpyridine 187392-96-7P  
194546-13-9P 197847-89-5P 339269-10-2P 339269-11-3P 342023-31-8P  
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342024-61-7P	342024-62-8P	342024-64-0P	342024-65-1P	342024-67-3P
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342028-02-8P				

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of pyrrolyl- and pyrazolylalkanoic acid derivs. as retinoid X receptor and PPAR receptor modulators)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 16 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:359973 ZCAPLUS Full-text

DOCUMENT NUMBER: 134:353301

TITLE: Preparation of alkoxyiminoalkanoic acid derivatives having blood sugar and lipid lowering effect  
 INVENTOR(S): Momose, Yu; Imoto, Hiroshi; Odaka, Hiroyuki; Kimura, Hiroyuki

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

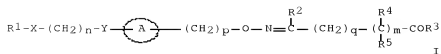
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001034579	A1	20010517	WO 2000-JP7878	20001109
W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2390928	A1	20010517	CA 2000-2390928	20001109
AU 2001013032	A5	20010606	AU 2001-13032	20001109
JP 2001199971	A	20010724	JP 2000-347463	20001109
EP 1229026	A1	20020807	EP 2000-974858	20001109
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			JP 1999-320318	A 19991110
			WO 2000-JP7878	W 20001109
OTHER SOURCE(S):	MARPAT 134:353301			

GI



AB Compds. of general formula (I) or salts thereof [wherein R<sup>1</sup> = an optionally substituted hydrocarbon or heterocyclyl; X is a free valency, O, S, CO, CS, CR<sub>6</sub>(OR<sub>7</sub>), NR<sub>8</sub> (wherein R<sub>6</sub>, R<sub>8</sub> = H, optionally substituted hydrocarbyl; R<sub>7</sub> = H, HO-protective group); Y = O, S, SO, SO<sub>2</sub>, NR<sub>8</sub>, CONR<sub>8</sub>, NR<sub>8</sub>CO (wherein R<sub>8</sub> = same as above) ; ring A = a heterocycle or hydrocarbon ring optionally having 1-3 substituents; p = 1-8; R<sup>2</sup> = hydrogen, optionally substituted hydrocarbyl or heterocyclyl; q = 0-6; m = 0,1; R<sup>3</sup> = OH, optionally substituted hydrocarbyloxy or NH<sub>2</sub>; R<sup>4</sup>, R<sup>5</sup> = H, optionally substituted hydrocarbyl; or R<sup>4</sup> and R<sup>5</sup> are linked together to form a ring; with the provisos that when A is optionally substituted indole, Y is not oxygen or sulfur, that when Y is oxygen, sulfur, -SO-, -SO<sub>2</sub>-, or -NR<sub>8</sub>-, A is not an optionally substituted benzene ring, and that when Y is oxygen and A is an optionally substituted, 4-pyrone, 4-pyridone, or pyridine N-oxide ring, R<sup>2</sup> is not a thiazolyl or thiadiazolyl group substituted with optionally protected amino] are prepared. These compds. are ligand for peroxisome proliferator-activated receptor (PPAR $\gamma$ ) and retinoid-related receptors, in particular retinoid X receptors and useful as preventive or therapeutic agents for diabetes, hyperlipidemia, or glucose intolerance and as insulin resistance improvers. Thus, NaH was gradually added to a solution of 5-chloromethyl-2-(5-methyl-2-phenyl-4-oxazolylmethoxy)pyridine and (E)-4-(hydroxyimino)-4-phenylbutanoic acid Me ester in DMF at 0° and stirred at room temperature for 1.5 h to give 87% (E)-4-[6-(5-methyl-2-phenyl-4-oxazolylmethoxy)-3-pyridylmethoxyimino]-4-phenylbutanoic acid Me ester which was saponified with LiOH in aqueous methanol and acidified with 1 N HCl to give 87% (E)-4-[6-(5-methyl-2-phenyl-4-oxazolylmethoxy)-3-pyridylmethoxyimino]-4-phenylbutanoic acid (II). KKAY mice (obesity and diabetes type II model), who were fed with a powder feed containing 0.01% II for 4 days, lowered blood sugar and triglyceride level by 54 and 90%, resp. A capsule and tablet formulation containing II were prepared

IC ICM C07D263-32

ICS C07D413-12; A61K031-421; A61K031-4439; C07C251-54; A61K031-195; A61K031-235; A61P003-10; A61P003-06

CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 17 OF 20 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2001:359842 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:361377

TITLE: Body weight gain inhibitors

INVENTOR(S): Sugiyama, Yasuo; Otake, Hiroyuki;

Kimura, Hiroyuki

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 67 pp.

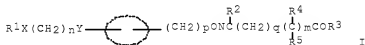
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001034200	A1	20010517	WO 2000-JP7879	20001109
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2390932	A1	20010517	CA 2000-2390932	20001109
AU 2001013033	A5	20010606	AU 2001-13033	20001109
JP 2001199887	A	20010724	JP 2000-347464	20001109
HU 200203837	A2	20030328	HU 2002-3837	20001109
EP 1304121	A1	20030423	EP 2000-974859	20001109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
NO 2002002214	A	20020709	NO 2002-2214	20020508
US 2005239854	A1	20051027	US 2005-168357	20050629
PRIORITY APPLN. INFO.:			JP 1999-320319	A 19991110
			WO 2000-JP7879	W 20001109
			US 2002-129704	B1 20020509

OTHER SOURCE(S): MARPAT 134:361377  
 GI



AB Body weight gain inhibitors comprises PPAR $\gamma$  agonist-like substances, which contain PPAR $\delta$  agonist-like substances such as compds. represented by general formula (I) wherein R1 represents optionally substituted hydrocarbyl, etc.; X represents a bond, etc.; Y represents oxygen, etc.; the ring A represents a heterocycle, etc.; R2 represents hydrogen, etc.; R3 represents-OR9, etc.; and R4 and R5 represent each hydrogen, etc., are useful in treating diabetes, etc.

IC ICM A61K045-00  
 ICS C07D263-32; A61K031-421; A61K031-195; A61K031-235; A61P003-10; A61P003-04

CC 1-10 (Pharmacology)  
 Section cross-reference(s): 28, 63

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 18 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:832682 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:157419

TITLE: Activation of Human Peroxisome Proliferator-Activated Receptor (PPAR) Subtypes by Pioglitazone  
 AUTHOR(S): Sakamoto, Junichi; Kimura, Hiroyuki;  
 Moriyama, Shinji; Otsuka, Hiroyuki; Momose,

CORPORATE SOURCE: Yu; Sugiyama, Yasuo; Sawada, Hidekazu  
Discovery Research Laboratories IV, Pharmaceutical  
Discovery Research Division, Takeda Chemical  
Industries, Ltd., Osaka, Japan

SOURCE: Biochemical and Biophysical Research Communications  
(2000), 278(3), 704-711  
CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Pioglitazone, a thiazolidinedione (TZD) derivative, is an antidiabetic agent that improves hyperglycemia and hyperlipidemia in obese and diabetic animals via a reduction in hepatic and peripheral insulin resistance. The TZDs including pioglitazone have been identified as high affinity ligands for peroxisome proliferator-activated receptor (PPAR)  $\gamma$ . The selectivity of pioglitazone for the human PPAR subtypes has not been reported, thus, we investigated the effect of pioglitazone on the human PPAR subtypes. Transient transactivation assay showed that pioglitazone is a selective hPPAR $\gamma$ 1 activator and a weak hPPAR $\alpha$  activator. Binding assay indicated that the transactivation of hPPAR $\gamma$ 1 or hPPAR $\alpha$  by pioglitazone is due to direct binding of pioglitazone to each subtype. Furthermore, pioglitazone significantly increased the apoA-I secretion from the human hepatoma cell line HepG2. (c) 2000 Academic Press.

CC 1-10 (Pharmacology)

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 19 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:34864 ZCAPLUS Full-text

DOCUMENT NUMBER: 132:93338

TITLE: Preparation of heterocyclic compounds as retinoid-associated receptor regulators

INVENTOR(S): Sugiyama, Yasuo; Momose, Yu; *Kimura, Hiroyuki*  
; Sakamoto, Junichi; *Odaka, Hiroyuki*

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 122 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000001679	A1	20000113	WO 1999-JP3520	19990630
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2332178	A1	20000113	CA 1999-2332178	19990630
AU 9943947	A	20000124	AU 1999-43947	19990630
JP 2000080086	A	20000321	JP 1999-186479	19990630
BR 9911752	A	20010403	BR 1999-11752	19990630
EP 1092711	A1	20010418	EP 1999-926853	19990630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				



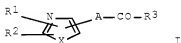
10/517214

TR 200100349	T2 20010723	TR 2001-200100349	19990630
HU 200102470	A2 20020429	HU 2001-2470	19990630
IN 2000KN00643	A 20050311	IN 2000-KN643	20001218
ZA 2000007635	A 20020102	ZA 2000-7635	20001219
MX 2000PA12925	A 20010521	MX 2000-PA12925	20001220
NO 2000006667	A 20010228	NO 2000-6667	20001227
LV 12633	B 20010720	LV 2000-177	20001228
US 6545009	B1 20030408	US 2000-720644	20001228

PRIORITY APPLN. INFO.: JP 1998-186698 A 19980701  
WO 1999-JP3520 W 19990630

OTHER SOURCE(S): MARPAT 132:93338

GI



AB The title compds. I [R1 represents optionally substituted aromatic hydrocarbyl or heteroaryl; R2 represents hydrogen or optionally substituted aromatic hydrocarbyl or heteroaryl; and R3 represents OR5, etc.; R5 = H, (un)substituted hydrocarbyl] are prepared I are useful as preventives and remedies for diabetes, etc. Formulations containing I are given. 4-[4-(4-Trifluoromethylphenyl)-2-oxazolyl]benzoic acid at 0.01% in feed decreased blood sugar by 51% in diabetic mice.

IC ICM C07D263-30  
ICS C07D277-30; C07D413-04; C07D417-04; A61K031-42; A61K031-425;  
A61K031-44

CC 28-20 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 63

REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L88 ANSWER 20 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:736671 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 131:351319

TITLE: Oxazolylmethoxybenzyl oxyiminoalkanoic acid derivatives with hypoglycemic and hypolipidemic activity

INVENTOR(S): Momose, Yu; Odaka, Hiroyuki; Imoto, Hiroshi;  
Kimura, Hiroyuki; Sakamoto, Junichi

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958510	A1	19991118	WO 1999-JP2407	19990510
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM,				

TR, TT, UA, US, UZ, VN, YU, ZA  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
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AU 9936297 A 19991129 AU 1999-36297 19990510  
 AU 766831 B2 20031023  
 BR 9910371 A 20010109 BR 1999-10371 19990510  
 EP 1077957 A1 20010228 EP 1999-918355 19990510  
 EP 1077957 B1 20040804

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI

TR 200003299 T2 20010521 TR 2000-200003299 19990510  
 HU 200103714 A2 20020128 HU 2001-3714 19990510  
 NZ 508066 A 20030328 NZ 1999-508066 19990510  
 RU 2213738 C2 20031010 RU 2000-131183 19990510  
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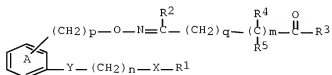
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 IE, FI, CY

AT 272625 T 20040815 AT 1999-918355 19990510  
 PT 1077957 T 20041029 PT 1999-918355 19990510  
 ES 2226377 T3 20050316 ES 1999-918355 19990510  
 JP 2000034266 A 20000202 JP 1999-130543 19990511  
 JP 3074532 B2 20000807  
 JP 2000198772 A 20000718 JP 1999-373202 19990511  
 US 6251926 B1 20010626 US 1999-423854 19991115  
 IN 2000KN00434 A 20050311 IN 2000-KN434 20001024  
 MX 2000PA10576 A 20010528 MX 2000-PA10576 20001027  
 ZA 2000006121 A 20010518 ZA 2000-6121 20001030  
 LV 12606 B 20010520 LV 2000-148 20001101  
 NO 2000005531 A 20010105 NO 2000-5531 20001102  
 NO 317426 B1 20041025  
 US 6495581 B1 20021217 US 2000-714699 20001116  
 HK 1034972 A1 20050311 HK 2001-105750 20010815  
 US 2003186985 A1 20031002 US 2002-331056 20021227  
 US 6924300 B2 20050802

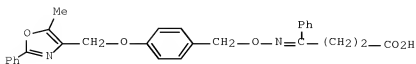
PRIORITY APPLN. INFO.:

JP 1998-127921 A 19980511  
 JP 1998-127922 A 19980511  
 EP 1999-918355 A3 19990510  
 WO 1999-JP2407 W 19990510  
 JP 1999-130543 A3 19990511  
 US 1999-423854 A3 19991115  
 US 2000-714699 A3 20001116

OTHER SOURCE(S): MARPAT 131:351319  
 GI



I



II

AB Title compds. (I) [where R1 = (un)substituted hydrocarbon or heterocyclic group; X = bond, CO, CH(OH), or (alkyl)amino; n = 1-3; Y = O, S, SO, SO<sub>2</sub>, or (alkyl)amino; ring A = optionally substituted with 1-3 substituents; p = 1-8; R2 = H or (un)substituted hydrocarbon or heterocyclic group; q = 0-6; m = 0 or 1; R3 = OH, alkoxy, or (un)substituted NH<sub>2</sub>; R4 and R5 = independently H, hydrocarbon, or may form a ring with R2] were prepared for the prevention or treatment of diabetes mellitus, hyperlipemia, insulin insensitivity, insulin resistance, and impaired glucose tolerance. Thus, reaction of Me (E)-4-hydroxyimino-4-phenylbutyrate (preparation given) with 4-(4-chloromethylphenoxy)methyl-5-methyl-2-phenyloxazole (preparation given) in DMF followed by deesterification yielded (E)-II (60%). Representative compds. including II were mixed with a powdery diet and fed freely to KKAY mice for 4 days. Anal. of blood samples revealed 36% to 54% hypoglycemic action and 35% to 82% hypotriglyceridemic action of the treatment group compared to control animals. Compds. of the invention also exhibited excellent PPAR $\gamma$ -RXR $\alpha$  heterodimer ligand activity with EC<sub>50</sub> values ranging from 0.024  $\mu$ M to 0.79  $\mu$ M.

IC ICM C07D263-32  
ICS A61K031-42; C07C251-54; A61K031-185; C07D413-12; C07D239-42; C07D471-04; C07D413-04; C07D261-08; C07D277-24; C07D215-14; C07D271-06; C07D213-74; C07D471-04; C07D235-00; C07D221-00

CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 DICTIONARY FILE UPDATES: 27 SEP 2007 HIGHEST RN 948530-59-4

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 experimental property data in the original document. For information  
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<http://www.cas.org/support/stngen/stdoc/properties.html>

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FILE COVERS 1907 - 28 Sep 2007 VOL 147 ISS 15  
 FILE LAST UPDATED: 27 Sep 2007 (20070927/ED)

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 'OBI' IS DEFAULT SEARCH FIELD FOR 'ZCAPLUS' FILE

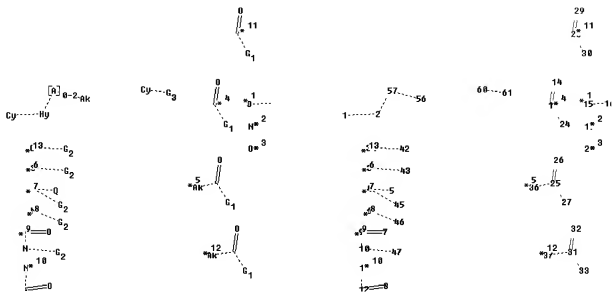
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L12 775523 SEA FILE=REGISTRY ABB=ON PLU=ON N2C3/ES OR NOC3/ES
L13 30896 SEA FILE=REGISTRY ABB=ON PLU=ON NSC3/ES
L14 805906 SEA FILE=REGISTRY ABB=ON PLU=ON L12 OR L13
L15 464 SEA FILE=REGISTRY ABB=ON PLU=ON NPC3/ES
L16 806370 SEA FILE=REGISTRY ABB=ON PLU=ON (L13 OR L14 OR L15)
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L19

STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation:  
 Uploading L19b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 20 24 25 26 27 28 29 30  
 31 32 33 34 36 37 42 43 45 46 47 48 56 57 60 61

ring/chain nodes :

16 17

chain bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24

15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 60-61

exact/norm bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24

15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 60-61

G1:[\*1],[\*2],[\*3]

G2:[\*4],[\*5]

G3:[\*6],[\*7],[\*8],[\*9],[\*10],[\*11],[\*12],[\*13]

Connectivity :

2:2 M minimum RC ring/chain 20:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 20:CLASS

10/517214

24:CLASS 25:CLASS  
26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS  
34:CLASS  
36:CLASS 37:CLASS 42:CLASS 43:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS  
56:CLASS 57:CLASS

60:Atom 61:CLASS

Generic attributes :

60:

Saturation : Unsaturated

Type of Ring System : Monocyclic

Element Count :

Node 2: Limited

N,N1-2

O,O0-1

S,S0-1

P,P0-1

C,C3

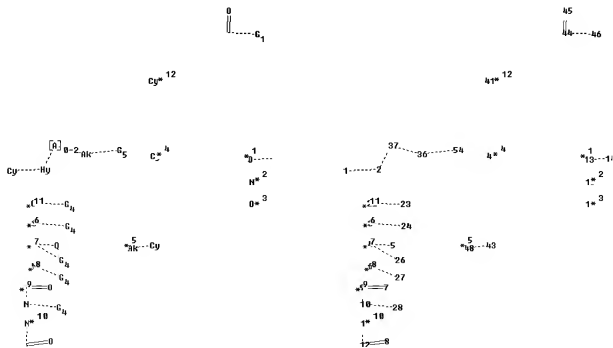
L21 71084 SEA FILE=REGISTRY SUB=L16 SSS FUL L19

L23 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation:

Uploading L23b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 18 22 23 24 26 27 28 29 36 37

```

41 42 43 44 45 46 48 54
ring/chain nodes :
14 15
chain bonds :
1-2 2-37 3-24 4-5 4-26 6-27 7-9 8-12 9-10 10-28 11-12 12-29 13-14 22-
23
36-37 36-54 43-48 44-45 44-46
exact/norm bonds :
1-2 2-37 3-24 4-5 4-26 6-27 7-9 8-12 9-10 10-28 11-12 12-29 13-14 22-
23
36-37 36-54 43-48 44-45 44-46

```

G1:[\*1],[\*2],[\*3]

G4:[\*4],[\*5]

G5:[\*6],[\*7],[\*8],[\*9],[\*10],[\*11],[\*12]

```

Connectivity :
2:2 M minimum RC ring/chain 18:1 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 22:CLASS 23:CLASS
24:CLASS 26:CLASS
27:CLASS 28:CLASS 29:CLASS 36:CLASS 37:CLASS 41:Atom 42:Atom 43:Atom
44:CLASS 45:CLASS
46:CLASS 48:CLASS 54:CLASS
Generic attributes :
41:
Saturation : Unsaturated
Type of Ring System : Monocyclic
42:
Saturation : Unsaturated
Type of Ring System : Monocyclic
43:
Saturation : Unsaturated
Type of Ring System : Monocyclic

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Element Count :

Node 2: Limited

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O,O0-1
S,S0-1
P,P0-1
C,C3

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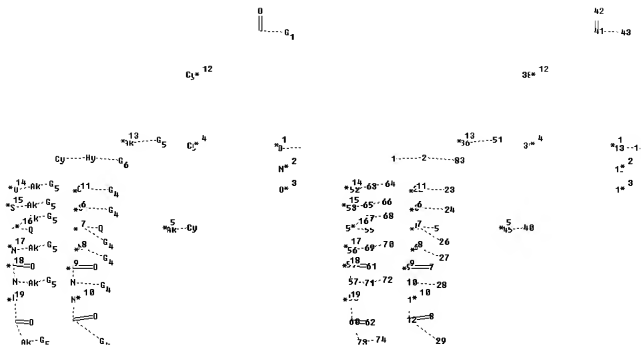
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L25      31522 SEA FILE=REGISTRY SUB=L21 SSS FUL L23
L29      STR

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Structure diagram not available for display

Structure attributes must be viewed using STN Express query preparation:  
Uploading L29b.str



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39 40 41 42 43 45 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
66 67 68 69
70 71 72 73 74 83
ring/chain nodes :
14 15
chain bonds :
1-2 2-83 3-24 4-5 4-26 6-27 7-9 8-12 9-10 10-28 11-12 12-29 13-14 22-
23
36-51 40-45 41-42 41-43 52-63 53-65 54-55 54-67 56-69 57-59 57-71 58-60
59-61 60-62
60-73 63-64 65-66 67-68 69-70 71-72 73-74
exact/norm bonds :
1-2 2-83 3-24 4-5 4-26 6-27 7-9 8-12 9-10 10-28 11-12 12-29 13-14 22-
23
36-51 40-45 41-42 41-43 52-63 53-65 54-55 54-67 56-69 57-59 57-71 58-60
59-61 60-62
60-73 63-64 65-66 67-68 69-70 71-72 73-74

```

$$G1: [*1], [*2], [*3]$$

G4: [\*4], [\*5]

G5: [\*6], [\*7], [\*8], [\*9], [\*10], [\*11], [\*12]

G6: [\*13], [\*14], [\*15], [\*16], [\*17], [\*18], [\*19]



Connectivity :  
 2:2 M minimum RC ring/chain 18:1 E exact RC ring/chain 36:2 E exact RC ring/chain  
 45:2 E exact RC ring/chain 63:2 E exact RC ring/chain 65:2 E exact RC ring/chain  
 67:2 E exact  
 RC ring/chain 69:2 E exact RC ring/chain 71:2 E exact RC ring/chain 73:2 E exact  
 RC ring/chain

Match level :  
 1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
 10:CLASS  
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 22:CLASS 23:CLASS  
 24:CLASS 26:CLASS  
 27:CLASS 28:CLASS 29:CLASS 36:CLASS 38:Atom 39:Atom 40:Atom 41:CLASS  
 42:CLASS 43:CLASS  
 45:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS  
 58:CLASS 59:CLASS  
 60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS 67:CLASS  
 68:CLASS 69:CLASS  
 70:CLASS 71:CLASS 72:CLASS 73:CLASS 74:CLASS 83:CLASS

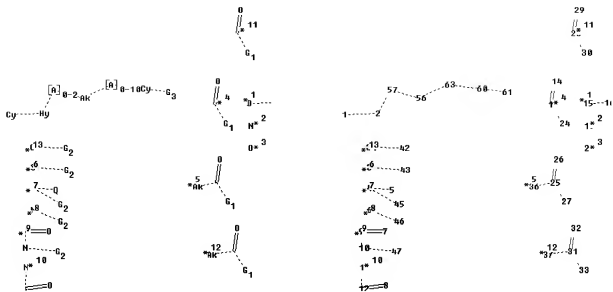
Generic attributes :  
 38:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic  
 39:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic  
 40:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic

Element Count :  
 Node 2: Limited  
 N,N1-2  
 O,O0-1  
 S,S0-1  
 P,P0-1  
 C,C3

L43 16848 SEA FILE=REGISTRY SUB=L25 SSS FUL L29  
 L46 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation:  
 Uploading L46b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 20 24 25 26 27 28 29 30  
31 32 33 34 36 37 42 43 45 46 47 48 56 57 60 61 63

ring/chain nodes :

16 17

chain bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24  
15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 56-63  
60-61 60-63

exact/norm bonds :

1-2 2-57 3-43 4-5 4-45 6-46 7-9 8-12 9-10 10-47 11-12 12-48 13-14 13-24  
15-16 25-26 25-27 25-36 28-29 28-30 31-32 31-33 31-37 34-42 56-57 56-63  
60-61 60-63

G1:[\*1],[\*2],[\*3]

G2:[\*4],[\*5]

G3:[\*6],[\*7],[\*8],[\*9],[\*10],[\*11],[\*12],[\*13]

Connectivity :

2:2 M minimum RC ring/chain 20:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 20:CLASS  
24:CLASS 25:CLASS  
26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

34:CLASS  
 36:CLASS 37:CLASS 42:CLASS 43:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS  
 56:CLASS 57:CLASS  
 60:Atom 61:CLASS 63:CLASS  
 Generic attributes :  
 60:  
 Saturation : Unsaturated  
 Type of Ring System : Monocyclic

Element Count :  
 Node 2: Limited  
 N,N1-2  
 O,O0-1  
 S,S0-1  
 P,P0-1  
 C,C3

L48 8395 SEA FILE=REGISTRY SUB=L43 SSS FUL L46  
 L49 3169 SEA FILE=REGISTRY ABB=ON PLU=ON L48 AND NRS<4  
 L51 1312 SEA FILE=REGISTRY ABB=ON PLU=ON L49 AND 16.165.12/RID  
 L57 785 SEA FILE=REGISTRY ABB=ON PLU=ON 16.167.5/RID AND L49  
 L58 2091 SEA FILE=REGISTRY ABB=ON PLU=ON L51 OR L57  
 L63 5 SEA FILE=REGISTRY ABB=ON PLU=ON 16.171.9/RID AND L49  
 L64 2096 SEA FILE=REGISTRY ABB=ON PLU=ON L58 OR L63  
 L65 383 SEA FILE=ZCAPLUS ABB=ON PLU=ON L64  
 L66 108 SEA FILE=ZCAPLUS ABB=ON PLU=ON L65 AND J/DT  
 L67 275 SEA FILE=ZCAPLUS ABB=ON PLU=ON L65 AND P/DT  
 L68 26 SEA FILE=ZCAPLUS ABB=ON PLU=ON L66 AND PY<2003  
 L69 78 SEA FILE=ZCAPLUS ABB=ON PLU=ON L67 AND PD<20020524  
 L72 104 SEA FILE=ZCAPLUS ABB=ON PLU=ON L68 OR L69

=> s L72 not L88  
 L89 102 L72 NOT L88

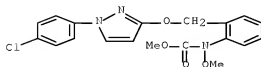
=> d ibib abs hitstr L89 1-102

L89 ANSWER 1 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:592703 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 140:13993  
 TITLE: A new strobilin-type fungicide pyraclostrobin  
 AUTHOR(S): Hou, Chunqing; Li, Zhinian; Liu, Changling  
 CORPORATE SOURCE: Shenyang Research Inst. of Chemical Industry,  
 Shenyang, 110021, Peop. Rep. China  
 SOURCE: Nongyao (2002), 41(6), 41-43, 34  
 CODEN: NONGFP; ISSN: 1006-0413  
 PUBLISHER: Nongyao Bianjibu  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: Chinese  
 AB A review on a new strobilin-type fungicide pyraclostrobin. It introduces the physiochem. properties, toxicity, preparation, mechanism and safety, patent and application of pyraclostrobin.  
 IT 175013-18-0, Pyraclostrobin  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(new strobil-type fungicide)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



L89 ANSWER 2 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:169613 ZCAPLUS Full-text

DOCUMENT NUMBER: 138:397549

TITLE: Anti-oxidative and anti-senescence effects of the strobilurin pyraclostrobin in plants: A new strategy to cope with environmental stress in cereals

AUTHOR(S): Jabbs, T.; Pfirrmann, J.; Schafer, S.; Wu, Y. X.; von Tiedemann, A.

CORPORATE SOURCE: Agricultural Centre, Global Research Biology, BASF AG, Limburgerhof, 67114, Germany

SOURCE: BCPC Conference--Pests &amp; Diseases (2002), (Vol. 2), 941-946

CODEN: BCDCAE

PUBLISHER: British Crop Protection Council

DOCUMENT TYPE: *Journal*

LANGUAGE: English

AB In addition to its broad spectrum fungicidal activity, the strobilurin pyraclostrobin had pos. effects on the crop yield in the absence of pathogen challenge. This physiol. effect on the plants was especially apparent under conditions of environmental stress. We have observed that pyraclostrobin prevented both symptom development and yield reduction by physiol. leaf spot in barley. Foliar application of pyraclostrobin reduced the production of reactive oxygen intermediates in barley leaf tissues by more than 50% and activated the plant antioxidative system. In addition, pyraclostrobin treatment prevented the release of stress-induced ethylene and premature senescence. Since the physiol. leaf spot disease and other environmental stresses are caused by changes in the genetic and metabolic regulation of reactive oxygen intermediates resulting in membrane-leakage, cell death or premature senescence, we postulate that the anti-oxidative and anti-senescence effects of pyraclostrobin are responsible for its ability to improve stress tolerance in plants.

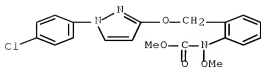
IT 175013-18-0, Pyraclostrobin

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(anti-oxidative and anti-senescence effects of pyraclostrobin in barley)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 3 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:169607 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 138:349947

TITLE: Shift in sensitivity of *Alternaria solani* (potato

early blight) to strobilurin fungicides

AUTHOR(S): Pasche, J. S.; Wharam, C. M.; Gudmestad, N. C.

CORPORATE SOURCE: Department of Plant Pathology, North Dakota State

University, Fargo, ND, 58105, USA

SOURCE: BCPC Conference--Pests & Diseases (2002),

(Vol. 2), 841-846

CODEN: BCDCAE

PUBLISHER: British Crop Protection Council

DOCUMENT TYPE: *Journal*

LANGUAGE: English

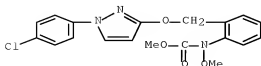
AB Forty-seven *Alternaria solani* isolates collected from 1998 and 2001 from various potato growing regions in the United States were assayed in vitro for sensitivity to azoxystrobin. Twenty-one *A. solani* isolates collected in 1998, prior to the introduction of azoxystrobin, had a mean baseline EC50 value of 0.0279 µg/mL. Isolates of *A. solani* collected in 2001, recovered from fields displaying a lack of disease control by azoxystrobin, had a mean EC50 of 0.3480 µg/mL. Mean EC50 values for baseline isolates to pyraclostrobin and trifloxystrobin were 0.0022 µg/mL and 0.0060 µg/mL resp. In 2001, sensitivities to pyraclostrobin and trifloxystrobin shifted to mean EC50 values of 0.0208 µg/mL, and 0.0140 µg/mL resp. In vivo assessments of sensitivity to azoxystrobin and pyraclostrobin were conducted on six isolates selected from the in vitro cross-resistance evaluations. Results from the in vivo assays were correlated to those obtained in the in vitro assays. Field studies need to be conducted to determine if the shift in sensitivity to pyraclostrobin and trifloxystrobin will result in a similar loss of disease control under com. potato growing conditions as observed with azoxystrobin.

IT 175013-18-0, Pyraclostrobin

RL: BSU (Biological study, unclassified); BIOL (Biological study) (sensitivity of *Alternaria solani* (potato early blight) to strobilurin fungicides)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 4 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:824680 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 138:319985

TITLE: Pyraclostrobin; pesticide tolerance

CORPORATE SOURCE: Environmental Protection Agency, Office of Pesticide Programs, Environmental Protection Agency, Washington, DC, 20460, USA

SOURCE: Federal Register (2002), 67(188), 60886-60902, 27 Sep 2002

CODEN: FEREAC; ISSN: 0097-6326

PUBLISHER: Superintendent of Documents

DOCUMENT TYPE: Journal

LANGUAGE: English

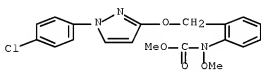
AB Tolerances are established for combined residues of pyraclostrobin (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, Me ester) and its desmethoxy metabolite Me 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl carbamate, expressed as parent compound, in or on almond, hulls and various other fruits and vegetables and agricultural products, and combined residues of pyraclostrobin and its metabolites convertible to 1-(4-chlorophenyl)-1H-pyrazol-3-ol and 1-(4-chloro-2-hydroxyphenyl)-1H-pyrazol-3-ol, expressed as parent compound, in or on cattle, fat and various other animal products. BASF Corporation requested these tolerances under the Federal Food, Drug, and Cosmetic Act (FFDCA), as amended by the Food Quality Protection Act (FQPA) of 1996.

IT 175013-18-0, Pyraclostrobin 512165-96-7

RL: ADV (Adverse effect, including toxicity); POL (Pollutant); BIOL (Biological study); OCCU (Occurrence)  
(tolerance for pyraclostrobin of food and feed)

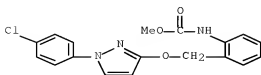
RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



RN 512165-96-7 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 5 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:717832 ZCAPLUS Full-text

DOCUMENT NUMBER: 137:334223

TITLE: A strobilurin fungicide enhances the resistance of tobacco against tobacco mosaic virus and *Pseudomonas syringae* pv *tabaci*

AUTHOR(S): Herms, Stefan; Seehaus, Kai; Koehle, Harald; Conrath, Uwe

CORPORATE SOURCE: Department of Biology, University of Kaiserslautern, Kaiserslautern, D-67653, Germany

SOURCE: Plant Physiology (2002), 130(1), 120-127

CODEN: PLPHAY; ISSN: 0032-0889

PUBLISHER: American Society of Plant Biologists

DOCUMENT TYPE: *Journal*

LANGUAGE: English

AB A strobilurin fungicide, F 500 (Pyraclostrobin), enhances the resistance of tobacco (*Nicotiana tabacum* cv Xanthi nc) against infection by either tobacco mosaic virus (TMV) or the wildfire pathogen *Pseudomonas syringae* pv *tabaci*. F 500 was also active at enhancing TMV resistance in NahG transgenic tobacco plants unable to accumulate significant amts. of the endogenous inducer of enhanced disease resistance, salicylic acid (SA). Apparently, F 500 enhances TMV resistance in tobacco either by acting downstream of SA in the SA signaling mechanism or by functioning independently of SA. The latter assumption is the more likely because in infiltrated leaves, F 500 did not cause the accumulation of SA-inducible pathogenesis-related (PR)-1 proteins that often are used as conventional mol. markers for SA-induced disease resistance. However, accumulation of PR-1 proteins and the associated activation of the PR-1 genes were elicited upon TMV infection of tobacco leaves and both these responses were induced more rapidly in F 500-pretreated plants than in the water-pretreated controls. Thus, F 500, in addition to exerting direct antifungal activity, may also protect plants by priming them for potentiated activation of subsequently pathogen-induced cellular defense responses.

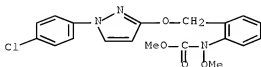
IT 175013-18-0, Pyraclostrobin

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(F 500 strobilurin fungicide enhancement of resistance of tobacco against tobacco mosaic virus and *Pseudomonas syringae* *tabaci*)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 6 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:602334 ZCAPLUS Full-text

DOCUMENT NUMBER: 137:347825

TITLE: Efficiency of fungicides to control anthracnose and

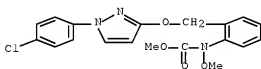
angular leaf spot in common beans  
 Rava, Carlos A.  
 AUTHOR(S):  
 CORPORATE SOURCE: Embrapa Arroz e Feijao, Santo Antonio de Goias, Brazil  
 SOURCE: Summa Phytopathologica (2002), 28(1), 65-69  
 CODEN: SUPHDV; ISSN: 0100-5405  
 PUBLISHER: Grupo Paulista de Fitopatologia  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: Portuguese

AB The effect of spray applications of two active ingredients, alone and in mixts.: epoxyconazole to control angular leafspot and pyraclostrobin, to control both anthracnose and angular leaf spot of common beans was studied. The treatments tested for control of anthracnose were. carbendazim + epoxyconazole (250 + 12.5 g ha<sup>-1</sup>); thiophanate Me + epoxyconazole (300 + 12,5 g ha<sup>-1</sup>); pyraclostrobin (50, 75, 100 g ha<sup>-1</sup>); pyraclostrobin + epoxyconazole (26.6 + 10 33.3 + 12.5 g ha<sup>-1</sup>); tebuconazole (200 g ha<sup>-1</sup>); and the check. For the angular leaf spot control trial, besides the above treatments were also included: epoxyconazole (12.5 g ha<sup>-1</sup>); azoxystrobin (60 g ha<sup>-1</sup>); tebuconazole (200 g ha<sup>-1</sup>); and thiophanate Me + chlorothalonil (350+875 g ha<sup>-1</sup>). Pyraclostrobin alone or in mixture with epoxyconazole, significantly reduced anthracnose severity, in all tested doses. All fungicides and doses tested to control anthracnose increased grain yield significantly, reaching as much as 97% increase in comparison with the check. Epoxyconazole alone or in mixts., showed high efficiency for control angular leaf spot. The effect of pyraclostrobin in all three doses tested and its mixture with epoxyconazole did not differ from epoxyconazole alone and in mixture with carbendazim and thiophanate. These treatments showed significantly higher control efficiency of angular leaf spot than azoxystrobin, tebuconazole and thiophanate Me + chlorothalonil.

IT 175013-18-0, Pyraclostrobin  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (fungicides for control anthracnose and angular leaf spot in common beans)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



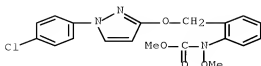
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 7 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:353222 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 136:351654  
 TITLE: Polymeric pest control sheet containing pesticides  
 INVENTOR(S): Barazani, Avner  
 PATENT ASSIGNEE(S): Makhteshim Chemical Works Ltd., Israel  
 SOURCE: PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002035930	A2	20020510	WO 2001-IL1014	20011101 <--
WO 2002035930	A3	20021205		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
IL 139388	A	20050925	IL 2000-139388	20001101
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AU 200214232	A	20020515	AU 2002-14232	20011101 <--
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RU 2292136	C2	20070127	RU 2003-112457	20011101
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IN 2003KN00516	A	20041218	IN 2003-KN516	20030424
NO 2003001858	A	20030625	NO 2003-1858	20030425
BG 107766	A	20040130	BG 2003-107766	20030429
ZA 2003003283	A	20040421	ZA 2003-3283	20030429
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PRIORITY APPLN. INFO.:				
			IL 2000-139388	A 20001101
			WO 2001-IL1014	W 20011101
AB	A sheet for pest control is made of polymeric material and comprises at least two layers; a top layer and a bottom layer, wherein the bottom layer contains a herbicide and one or more pesticides selected from among fungicides and insecticides, and the top layer optionally contains an insecticide and/or fungicide. Other aspects of the invention include a polymeric composition used in the preparation of the sheets and a method for pest control in agriculture, horticulture and gardens.			
IT	175013-18-0, Pyraclostrobin RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (polymeric pest control sheet containing)			
RN	175013-18-0 ZCAPLUS			
CN	Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)			



L89 ANSWER 8 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:312686 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 137:30451

TITLE: Sensitivity to azoxystrobin among isolates of *Uncinula necator*: baseline distribution and relationship to myclobutanil sensitivity

AUTHOR(S): Wong, Francis P.; Wilcox, Wayne F.

CORPORATE SOURCE: Department of Plant Pathology, New York Agricultural Experiment Station, Cornell University, Geneva, NY, 14456, USA

SOURCE: Plant Disease (2002), 86(4), 394-404

CODEN: PLDIDE; ISSN: 0191-2917

PUBLISHER: American Phytopathological Society

DOCUMENT TYPE: *Journal*

LANGUAGE: English

AB Two hundred fifty-six single-conidial chain isolates of *Uncinula necator* were assayed for their sensitivity to azoxystrobin and myclobutanil. These isolates were collected from two sites in New York in 1999: an organic vineyard where no synthetic fungicides have been used (baseline population) and a com. vineyard having a history of compromised powdery mildew control with myclobutanil (demethylation inhibitor [DMI]-resistant population). Mean coeffs. of variance for a leaf disk assay used to test fungicide sensitivities were 31% for azoxystrobin and 41% for myclobutanil. Baseline ED50 values ranged from 0.0037 to 0.028 µg/mL (mean 0.0097 µg/mL) for azoxystrobin and from 0.0049 to 0.69 µg/mL (mean 0.075 µg/mL) for myclobutanil. A shift in the mean ED50 value for azoxystrobin to 0.018 µg/mL was observed in the DMI-resistant population; with the strongest shift observed for isolates collected from vines treated exclusively with myclobutanil (0.024 µg/mL). For the 256 tested isolates, there was a moderate, but statistically significant, correlation between azoxystrobin and myclobutanil sensitivities ( $R^2=0.36$ ,  $P<0.001$ ). Tests with three other strobilurin fungicides (kresoxim-Me, pyraclostrobin, and trifloxystrobin) indicate clear differences in the intrinsic activity of these compds. against *U. necator*, and the applicability of the methods developed with azoxystrobin for assays with pyraclostrobin and trifloxystrobin. Isolates from the high and low ends of the azoxystrobin sensitivity distribution (15x difference in mean ED50 values) were equally controlled in planta by protectant or postinfection treatment with azoxystrobin at 250 µg a.i./mL, but postinfection application at lower rates (2.5 and 25 µg a.i./mL) resulted in a 41 and 44% decrease, resp., in the control of the low-sensitivity isolates vs. high-sensitivity isolates. The results of this study document the baseline sensitivity distribution of *U. necator* to azoxystrobin, provide evidence of partial cross-sensitivity between azoxystrobin and myclobutanil, and illustrate the potential selection for individuals with reduced sensitivity (quant. range) to azoxystrobin by postinfection application and reduced rates of this fungicide.

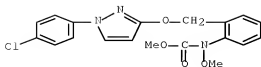
IT *I75013-18-0*, Pyraclostrobin

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(strobilurin fungicide sensitivity among *Uncinula necator* isolates)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 9 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:293365 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 136:320810  
 TITLE: Synergistic insecticidal, fungicidal and acaricidal mixtures  
 INVENTOR(S): Fischer, Reiner; Wachendorff-Neumann, Ulrike  
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 79 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030199	A1	20020418	WO 2001-EP11126	20010926 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10049804	A1	20020418	DE 2000-10049804	20001009 <--
AU 200213967	A	20020422	AU 2002-13967	20010926 <--
EP 1326495	A1	20030716	EP 2001-982360	20010926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014491	A	20031014	BR 2001-14491	20010926
JP 2004510793	T	20040408	JP 2002-533652	20010926
IN 2001MU00931	A	20050304	IN 2001-MU931	20010926
US 2004102326	A1	20040527	US 2003-398265	20030403
MX 2003PA03029	A	20030624	MX 2003-PA3029	20030407
PRIORITY APPLN. INFO.:			DE 2000-10049804	A 20001009
			WO 2001-EP11126	W 20010926

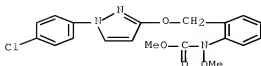
OTHER SOURCE(S): MARPAT 136:320810

AB The title mixts. comprise known cyclic ketoenole (Markush given) and any of 55 known insecticides, fungicides or acaricides, such as fluquinconazole, tebuconazole, bitertanol, triadimenol, triadimefon, difenoconazole, flusilazole, prochloraz, penconazole, etc.

IT 175013-18-09, BAS 500F, mixts. with cyclic ketoenol derivs.  
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (synergistic pesticidal mixts.)

RN 175013-18-0 ZCAPLUS

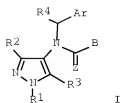
CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



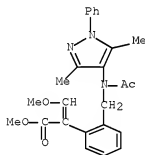
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 10 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:240497 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 136:279449  
 TITLE: Preparation of 4-acylaminopyrazole derivatives as agrochemicals  
 INVENTOR(S): Kajino, Hisaki; Morimoto, Munetsugu; Furuta, Satoru; Tanaka, Hisako; Tanaka, Harukazu; Ohnishi, Tohru  
 PATENT ASSIGNEE(S): Sankyo Company, Ltd., Japan  
 SOURCE: PCT Int. Appl., 985 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

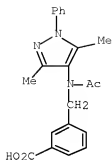
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002023986	A2	20020328	WO 2001-JP7166	20010821 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, VZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2001080099	A5	20020402	AU 2001-80099	20010821 <--
EP 1329160	A2	20030723	EP 2001-958383	20010821
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2002138082	A	20020514	JP 2001-252348	20010823 <--
PRIORITY APPLN. INFO.:			JP 2000-254809	A 20000825
			WO 2001-JP7166	W 20010821
OTHER SOURCE(S):	MARPAT 136:279449			
GI				



- AB The title compds. I [R1 is hydrogen, optionally substituted C1-16 alkyl, or the like; R2 and R3 are each independently hydrogen, halogeno, optionally substituted C1-6 alkyl, or the like; R4 is hydrogen, C1-6 alkyl, or cyano; Z is oxygen or sulfur; Ar is optionally substituted C6-14 aryl or an optionally substituted 5- or 6-membered unsatd. heterocyclic group; and B is hydrogen, halogeno, optionally substituted C1-16 alkyl, or the like] are prepared Me N-(3-cyanobenzyl)-N-(1-isobutyl-3-methyl-1H-pyrazole)carbamate at 10 ppm gave  $\geq 50\%$  control of *Phytophthora* infestans.
- IT 405545-51-2P 405545-53-1P 405545-54-2P  
 405545-55-2P 405545-56-4P 405545-57-5P  
 405545-58-6P 405545-59-7P 405545-60-0P  
 405545-68-8P 405546-72-7P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of 4-acylaminopyrazole derivs. as agrochems.)
- RN 405545-51-9 ZCAPLUS
- CN Benzoic acid, 2-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

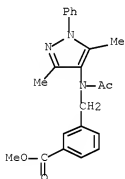


- RN 405545-53-1 ZCAPLUS
- CN Benzoic acid, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]- (9CI) (CA INDEX NAME)



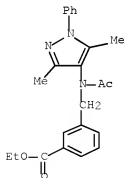
RN 405545-54-2 ZCAPLUS

CN Benzoic acid, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 405545-55-3 ZCAPLUS

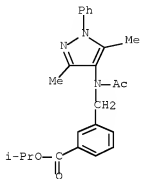
CN Benzoic acid, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 405545-56-4 ZCAPLUS

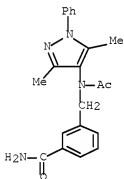
10/517214

CN Benzoic acid, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



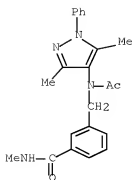
RN 405545-57-5 ZCAPLUS

CN Benzamide, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]- (9CI) (CA INDEX NAME)



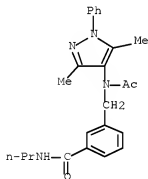
RN 405545-58-6 ZCAPLUS

CN Benzamide, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



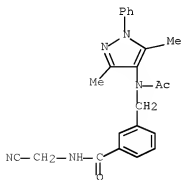
RN 405545-59-7 ZCAPLUS

CN Benzamide, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-  
N-propyl- (9CI) (CA INDEX NAME)



RN 405545-60-0 ZCAPLUS

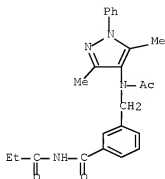
CN Benzamide, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-  
N-(cyanomethyl)- (9CI) (CA INDEX NAME)





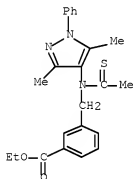
RN 405545-68-8 ZCAPLUS

CN Benamide, 3-[[acetyl(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)amino]methyl]-N-(1-oxopropyl)- (9CI) (CA INDEX NAME)



RN 405546-72-7 ZCAPLUS

CN Benzoic acid, 3-[[[(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)(1-thioxoethyl)amino]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 11 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:234509 ZCAPLUS Full-text

DOCUMENT NUMBER: 137:93732

TITLE: Synthesis of new salicylamide derivatives with evaluation of their antiinflammatory, analgesic and antipyretic activities

AUTHOR(S): Fahmy, H. H.; Soliman, G. A.

CORPORATE SOURCE: Therapeutical Chemistry Department, National Research Centre, Cairo, Egypt

SOURCE: Archives of Pharmacal Research (2001), 24(3), 180-189

CODEN: APHRDQ; ISSN: 0253-6269

PUBLISHER: Pharmaceutical Society of Korea

DOCUMENT TYPE: *Journal*

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:93732

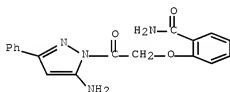
AB A new series of pyridazine, pyrazoles, pyrazolidine-3,5-dione, semicarbazide, thiosemicarbazides, hydantoin, thiohydantoins, 1,2,4-triazoles, S-triazolo[3,4-b]-1,3,4-thiadiazoles incorporated indirectly into salicylamide moiety at position 2 were synthesized. Also the synthesis of novel series of 3-salicylamido-2-hydroxypropyl amine derivs. were prepared. Several of these compds. were screened for antiinflammatory, analgesic, antipyretic and ulcerogenic activities.

IT 442129-55-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 442129-55-7 ZCAPLUS

CN Benzamide, 2-[2-(5-amino-3-phenyl-1H-pyrazol-1-yl)-2-oxoethoxy]- (9CI)  
(CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 12 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:220302 ZCAPLUS Full-text

DOCUMENT NUMBER: 136:243290

TITLE: Synergistic fungicidal compositions

INVENTOR(S): Nuninger, Cosima; Zeller, Martin

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

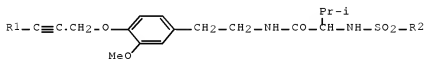
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002021918	A1	20020321	WO 2001-EP10446	20010910 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2421226	A1	20020321	CA 2001-2421226	20010910 <--
AU 200212227	A	20020326	AU 2002-12227	20010910 <--
EP 1317178	A1	20030611	EP 2001-980366	20010910
EP 1317178	B1	20040512		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	
BR 2001013815	A	20030708 BR 2001-13815 20010910
HU 200301024	A2	20031028 HU 2003-1024 20010910
AT 266316	T	20040515 AT 2001-980366 20010910
JP 2004518623	T	20040624 JP 2002-526185 20010910
TW 220381	B	20040821 TW 2001-90122367 20010910
ES 2217194	T3	20041101 ES 2001-1980366 20010910
RU 2270564	C2	20060227 RU 2003-109610 20010910
ZA 2003001569	A	20040420 ZA 2003-1569 20030226
IN 2003CN00348	A	20050408 IN 2003-CN348 20030307
MX 2003PA02117	A	20030619 MX 2003-PA2117 20030311
US 2003189958	A1	20031009 US 2003-380486 20030312
PRIORITY APPLN. INFO.:		GB 2000-22338 A 20000912
		WO 2001-EP10446 W 20010910

OTHER SOURCE(S): MARPAT 136:243290  
GI



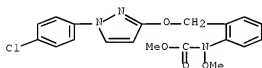
AB The title compns. comprise a N-sulfonylvalinamide I (R1 = H, C1-4 alkyl, C3-6 cycloalkyl or halophenyl; R2 = C1-4 alkyl) in association with acibenzolar-S-Me, azoxystrobin, chlorothalonil, cymoxanil, dimethomorph, fluazinam, fludioxonil, imazalil, S-imazalil, mancozeb, metalaxyl, metalaxyl-M, picoxystrobin, pyraclostrobin (BAS 500F), trifloxystrobin, etc.

IT 175013-18-0D, Pyraclostrobin, mixts. with N-sulfonylvalinamide derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns.)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 13 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2002:106491 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 136:351622  
 TITLE: Evaluation of fungicides in control of spot-type net blotch on barley  
 AUTHOR(S): Jayasena, K. W.; Loughman, R.; Majewski, J.

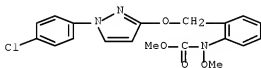
CORPORATE SOURCE: Agriculture Western Australia, Albany, 6330, Australia  
 SOURCE: Crop Protection (2002), 21(1), 63-69  
 CODEN: CRPTD6; ISSN: 0261-2194  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: English

AB Ten fungicides (pyraclostrobin, tebuconazole, flutriafol, epoxiconazole, propiconazole, triadimefon, azoxystrobin, trifloxystrobin, difenoconazole and a mixture of propiconazole with iprodione) were evaluated as single applications for control of spot-type net blotch of barley caused by *Drechslera teres maculata* at three locations during 1999 and 2000. Under moderate disease severity, yield losses ranged from 17-19% depending on location and under high disease severity, yield losses reached 32%. Pyraclostrobin, propiconazole and a mixture of propiconazole with iprodione were the most effective in controlling disease, improving yield and grain quality. These fungicides show most promise as com. treatments when yield and quality are taken into account. Azoxystrobin, trifloxystrobin, difenoconazole and epoxiconazole also provided disease control.

IT 175013-18-0, (Pyraclostrobin)  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (fungicides in control of spot-type net blotch on barley)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

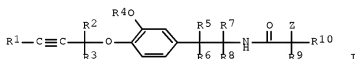
L89 ANSWER 14 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2001:851100 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 135:371520  
 TITLE: Preparation of novel phenyl propargyl ethers as agrochemical fungicides  
 INVENTOR(S): Lamberth, Clemens; Zeller, Martin; Kunz, Walter; Cederbaum, Fredrik  
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.  
 SOURCE: PCT Int. Appl., 84 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001087822	A1	20011122	WO 2001-EP5530	20010515 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				

RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,  
 UZ, VN, YU, ZA, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

TW 228117	B	20050221	TW 2001-90108854	20010413
CA 2406088	A1	20011122	CA 2001-2406088	20010515 <--
AU 200160301	A	20011126	AU 2001-60301	20010515 <--
AU 2001260301	B2	20041104		
BR 2001010810	A	20030211	BR 2001-10810	20010515
EP 1282595	A1	20030212	EP 2001-933967	20010515
EP 1282595	B1	20040714		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200301965	A2	20030929	HU 2003-1965	20010515
JP 2003533502	T	20031111	JP 2001-584219	20010515
AT 271031	T	20040715	AT 2001-933967	20010515
PT 1282595	T	20041130	PT 2001-933967	20010515
ES 2223848	T3	20050301	ES 2001-1933967	20010515
RU 2259353	C2	20050827	RU 2002-133216	20010515
BG 22695	A	20030630	EG 2001-511	20010516
IN 2002CN01841	A	20050211	IN 2002-CN1841	20021111
MX 2002PA11198	A	20030310	MX 2002-PA11198	20021113
ZA 2002009266	A	20031020	ZA 2002-9266	20021114
US 6683211	B1	20040127	US 2002-276476	20021115
HR 2002000908	B1	20060731	HR 2002-908	20021115
HK 1054368	A1	20050603	HK 2003-104881	20030708
PRIORITY APPLN. INFO.:				
			GB 2000-11944	A 20000517
			WO 2001-E05530	W 20010515
			WO 2001-EP5530	W 20010515

OTHER SOURCE(S): MARPAT 135:371520  
 GI

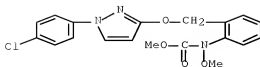


AB The title compds. [I; R1 = H, alkyl, cycloalkyl, (un)substituted aryl; R2, R3 = H, alkyl; R4 = alkyl, alkenyl, alkynyl; R5- R8 = H, alkyl; R9 = H, (un)substituted alkyl, alkenyl or alkynyl; R10 = (un)substituted (hetero)aryl; Z = halo, (un)substituted aryloxy, alkoxy, etc.] which possess useful plant protecting properties and may advantageously be employed in agricultural practice for controlling or preventing the infestation of plants by phytopathogenic microorganisms, especially fungi (biol. data given), were prepared E.g., a multi-step synthesis of I (R1-R3 = H; R4 = Me; R5-R8 = H; R9 = H; R10 = 4-ClC6H4; Z = OMe) was given.

IT 175013-13-G, Pyraclostrobin  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (preparation of novel Ph propargyl ethers as agrochem. fungicides)

RN 175013-18-0 ZCAPLUS

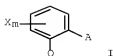
CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 15 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2001:816378 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 135:340474  
 TITLE: Method for inducing antiviral resistance in plants  
 INVENTOR(S): Koehle, Harald; Conrath, Uwe; Seehaus, Kai  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001082701	A1	200111108	WO 2001-EP4889	20010430 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2409649	A1	20011108	CA 2001-2409649	20010430 <--
EP 1278415	A1	20030129	EP 2001-947250	20010430
EP 1278415	B1	20031001		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001010455	A	20030311	BR 2001-10455	20010430
HU 200300631	A2	20030728	HU 2003-631	20010430
AT 250856	T	20031015	AT 2001-947250	20010430
JP 2003531840	T	20031028	JP 2001-579592	20010430
PT 1278415	T	20040227	PT 2001-947250	20010430
NZ 522341	A	20040430	NZ 2001-522341	20010430
ES 2210178	T3	20040701	ES 2001-1947250	20010430
CZ 296412	B6	20060315	CZ 2002-3592	20010430
TW 243017	B	20051111	TW 2001-90110612	20010503
US 2003139432	A1	20030724	US 2002-257874	20021017
MX 2002PA10531	A	20030310	MX 2002-PA10531	20021025
ZA 2002009751	A	20031202	ZA 2002-9751	20021202
US 2004186149	A1	20040923	US 2004-816905	20040405
PRIORITY APPLN. INFO.:			DE 2000-10021190	A 20000503
			WO 2001-EP4889	W 20010430
			US 2002-257874	A1 20021017
OTHER SOURCE(S):		MARPAT 135:340474		
GI				

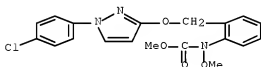


AB The invention relates to a method for inducing antiviral resistance in plants, which is characterized in that the plants, the soil or seeds are treated with a compound, which is absorbed by the plants or seeds. The compds. are I [X = halo, C1-4 alkyl or trifluoromethyl; m = 0 or 1; Q = C(:CHCH3)COOCH3, C(:CHOCH3)COOCH3, C(:CHOCH3)CONHCH3, C(:NOCH3)COOCH3, C(:NOCH3)CONHCH3 or N(OCH3)COOCH3; A = OB, CH2OB, OCH2B, CH:CHB, C:CB, CH2ON:CR1B or CH2ON:CR1CR2:NR3; B = (un)substituted Ph, naphthyl, 5-member or 6-member heteroaryl or 5-member or 6-member heterocyclyl, containing one to three N atoms and/or one O or S atom or one or two O and/or S atoms; R1 = H, cyano, alkyl, haloalkyl, cycloalkyl or alkoxy; R2 = (un)substituted Ph, phenylcarbonyl, phenylsulfonyl, 5-member or 6-member heteroaryl, 5-member or 6-member heteroarylcarbonyl or 5-member or 6-member heteroarylsulfonyl, etc.; R3 = H or (un)substituted alkyl, alkenyl and alkynyl]. Preferred I are pyraclostrobin, picoxystrobin, trifloxystrobin and azoxystrobin.

IT 175013-18-0, Pyraclostrobin  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (inducing antiviral resistance in plants by)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 16 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2001:781491 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 136:69768

TITLE: Design, Synthesis, and Biological Evaluation of a Library of 1-(2-Thiazolyl)-5-(trifluoromethyl)pyrazole-4-carboxamides

AUTHOR(S): Donohue, Bridget A.; Michelotti, Enrique L.; Reader, John C.; Reader, Valerie; Stirling, Matthew; Tice, Colin M.

CORPORATE SOURCE: Rohm and Haas Company, Spring House, PA, 19477-0904, USA

SOURCE: Journal of Combinatorial Chemistry (2002), 4(1), 23-32  
 CODEN: JCCHFF; ISSN: 1520-4766

PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: English

AB A library of 422 1-(2-thiazolyl)-5-(trifluoromethyl)pyrazole-4- carboxamides was prepared in five steps using solution-phase chemical. The first step in the synthesis was the reaction of Et 2-ethoxymethylene-3-oxo-4,4,4-trifluorobutanoate with thiosemicarbazide, which is reported in the literature to afford a 1:1 mixture of Et 1-thiocarbamoyl-5- (trifluoromethyl)pyrazole-4-carboxylate and Et 1-thiocarbamoyl-3- (trifluoromethyl)pyrazole-4-carboxylate. The product is, however, a single compound, Et 5-hydroxy-1-thiocarbamoyl-5-(trifluoromethyl)-4,5- dihydro-1H-pyrazole-4-carboxylate. This common intermediate was diversified by reaction with 17  $\alpha$ -bromo ketones affording, in two steps, 17 1-(2-thiazolyl)-5-(trifluoromethyl)pyrazole-4-carboxylic acids. Scavenger resins were used to facilitate formation and purification of up to 27 amides from each of these acids in the last step. In addition, the Curtius reaction was applied to 12 of the acids followed by quenching with alcs. to afford a 108-member carbamate library. Certain compds. in the two libraries were toxic to *C. elegans*.

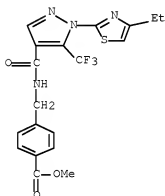
IT 385412-59-9F 385412-60-2P

RL: CPN (Combinatorial preparation); CMBI (Combinatorial study); PREP (Preparation)

(preparation and nematocidal activity of a library of 1-(2-thiazolyl)-5-(trifluoromethyl)pyrazole-4-carboxamides and -carbamates)

RN 385412-59-9 ZCAPLUS

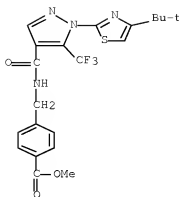
CN Benzoic acid, 4-[[[1-[4-(1-ethyl-2-thiazolyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]carbonyl]amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 385412-60-2 ZCAPLUS

CN Benzoic acid, 4-[[[1-[4-(1,1-dimethylethyl)-2-thiazolyl]-5-(trifluoromethyl)-1H-pyrazol-4-yl]carbonyl]amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 17 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2001:780351 ZCAPLUS Full-text

DOCUMENT NUMBER: 135:299954

TITLE: Fungicidal compositions comprising

methoxyiminoacetamide derivatives.  
Wachendorff-Neumann, Ulrike; Seitz, Thomas; Gayer, Herbert; Heinemann, Ulrich; Krueger, Bernd-Wieland; Kraemer, Wolfgang; Assmann, Lutz

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 40 pp.

CODEN: GWXXBX

DOCUMENT TYPE: *Patent*

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

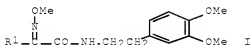
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10019758	A1	20011025	DE 2000-10019758	20000420 <--
WO 2001080641	A2	20011101	WO 2001-EP4042	20010409 <--
WO 2001080641	A3	20020328		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1276375	A2	20030122	EP 2001-933807	20010409
EP 1276375	B1	20050720		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001010116	A	20030211	BR 2001-10116	20010409
JP 2003531154	T	20031021	JP 2001-577751	20010409
HU 200302686	A2	20031128	HU 2003-2686	20010409
AT 299648	T	20050815	AT 2001-933807	20010409
PT 1276375	T	20051130	PT 2001-933807	20010409

10/517214

ES 2243496	T3	20051201	ES 2001-193807	20010409
RU 2265331	C2	20051210	RU 2002-131167	20010409
IN 2001MU00339	A	20050304	IN 2001-MU339	20010412
ZA 2002007474	A	20030918	ZA 2002-7474	20020918
US 2003158151	A1	20030821	US 2002-257740	20021016
US 6787567	B2	20040907		
MX 2002PA10331	A	20030523	MX 2002-PA10331	20021018
US 2004266850	A1	20041230	US 2004-840907	20040507
PRIORITY APPLN. INFO.:			DE 2000-10019758	A 20000420
			WO 2001-EP4042	W 20010409
			US 2002-257740	A3 20021016

OTHER SOURCE(S): MARPAT 135:299954  
GI



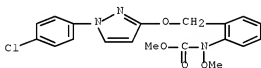
AB Fungicidal compns. comprise methoxyiminoacetamide derivs. I (R1 = fluorine-, chlorine-, bromine-, Me-, Et-, Pr- iso-Pr-, Bu-, iso-Bu-, tert-Bu-, methoxy-, ethoxy- or phenoxy-substituted or unsubstituted Ph, 2-naphthyl, 1,2,3,4-tetrahydronaphthyl, indanyl, 2-benzofuranyl, 2-benzothienyl, 2-thienyl or 2-furanyl) and any of known 58 fungicides.

IT 175013-13-00, mixts. with methoxyiminoacetamide derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (fungicidal compns.)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



L89 ANSWER 18 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:747733 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 135:303727

TITLE: Synthesis of lunularic acid derivatives as chemopreventive agents

INVENTOR(S): Gerhaeuser, Clarissa; Eicher, Theophil; Pick, Rigobert

PATENT ASSIGNEE(S): Deutsches Krebsforschungszentrum Stiftung Des Oeffentlichen Rechts, Germany

SOURCE: PCT Int. Appl., 64 pp.  
CODEN: PIXXD2

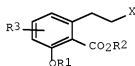
DOCUMENT TYPE: Patent

LANGUAGE: German

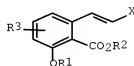
FAMILY ACC. NUM. COUNT: 1

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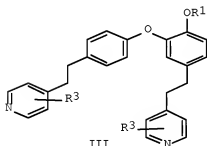
PATENT NO.			KIND	DATE	APPLICATION NO.			DATE
WO 2001074753			A1	20011011	WO 2001-DE1264			20010330 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM								
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG								
DE 10015525			A1	20011011	DE 2000-10015525			20000330 <--
PRIORITY APPLN. INFO.:					DE 2000-10015525			A 20000330
OTHER SOURCE(S):				MARPAT 135:303727				
GI								



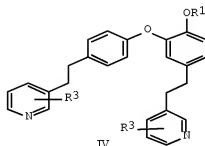
I



II



III



IV

- AB Lunularic acid derivs. [I-IV; X = (un)substituted mono or polycyclic (hetero)aryl; R1, R2 = alkyl, alkenyl, mono or polycyclic aryl; R3 = F, Cl, Br, I, amino, alkylamino, aminoalkyl, OH, carboxyl, alkoxy, carbonyl, carbamoyl, aryl, acyloxy, etc.] are prepared which are suitable as chemopreventive agents. Thus, lunularic acid derivative II [R1 = R3 = H, R2 = Me, X = Ph (V)] was prepared via Wittig reaction between (3-acetoxy-2-methoxycarbonyl)benzyl-triphenyl-phosphonium bromide and benzaldehyde. V was tested for chemopreventive properties (IC50 = 0.087  $\mu$ M vs. Cyp1A1 in Hepalcl7 mouse hepatoma cells; 40% inhibition of DMBA-induced preneoplastic lesions in mice thymus gland culture; IC50 = 7.2  $\mu$ M for inhibition of quinone oxidoreductase induction).
- IT 365542-56-2P 365543-57-0P 365542-58-1P  
 365542-59-2P 365542-60-5P 365542-61-6P  
 365542-74-1P
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological

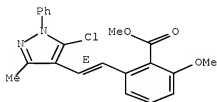
10/517214

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
(synthetic derivs. of lunularic acid and their therapeutic use)

RN 365542-56-9 ZCAPLUS

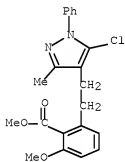
CN Benzoic acid, 2-[(1E)-2-(5-chloro-3-methyl-1-phenyl-1H-pyrazol-4-yl)ethenyl]-6-methoxy-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 365542-57-0 ZCAPLUS

CN Benzoic acid, 2-[2-(5-chloro-3-methyl-1-phenyl-1H-pyrazol-4-yl)ethyl]-6-methoxy-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

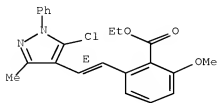


● HCl

RN 365542-58-1 ZCAPLUS

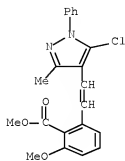
CN Benzoic acid, 2-[(1E)-2-(5-chloro-3-methyl-1-phenyl-1H-pyrazol-4-yl)ethenyl]-6-methoxy-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 365542-59-2 ZCAPLUS

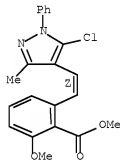
CN Benzoic acid, 2-[2-(5-chloro-3-methyl-1-phenyl-1H-pyrazol-4-yl)ethenyl]-6-methoxy-, methyl ester (9CI) (CA INDEX NAME)



RN 365542-60-5 ZCAPLUS

CN Benzoic acid, 2-[(1Z)-2-(5-chloro-3-methyl-1-phenyl-1H-pyrazol-4-yl)ethenyl]-6-methoxy-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)

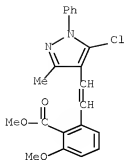
Double bond geometry as shown.



● HCl

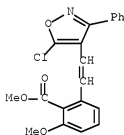
RN 365542-61-6 ZCAPLUS

CN Benzoic acid, 2-[2-(5-chloro-3-methyl-1-phenyl-1H-pyrazol-4-yl)ethenyl]-6-methoxy-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

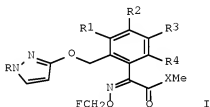
RN 365542-74-1 ZCAPLUS  
 CN Benzoic acid, 2-[2-(5-chloro-3-phenyl-4-isoxazolyl)ethenyl]-6-methoxy-,  
 methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 19 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:472679 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 135:61328  
 TITLE: Preparation of 2-[2-(1-phenyl-1H-pyrazol-3-yl)oxymethylphenyl]-2-fluoromethoxyiminoacetates and methylacetamides as agrochemical fungicides and insecticides  
 INVENTOR(S): Heinemann, Ulrich; Gayer, Herbert; Gerdes, Peter; Krueger, Bernd-Wieland; Maurer, Fritz; Vaupel, Martin; Mauler-Machnik, Astrid; Wachendorff-Neumann, Ulrike; Haenszler, Gerd; Kuck, Karl-Heinz; Loesel, Peter; Erdelen, Christoph  
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 61 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001046154	A1	20010628	WO 2000-EP12481	20001211 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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EP 1244633	A1	20021002	EP 2000-987379	20001211
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JP 2003518100	T	20030603	JP 2001-547065	20001211
US 6589974	B1	20030708	US 2002-149888	20021029
PRIORITY APPLN. INFO.:			DE 1999-19962012	A 19991222
			DE 2000-10034129	A 20000713
			WO 2000-EP12481	W 20001211
OTHER SOURCE(S):	MARPAT 135:61328			
GI				



- AB Title compds. [I; X = O, NH; R = (substituted) alkyl, cycloalkyl, aryl; R1-R4 = H, halo, cyano, NO2, (substituted) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl], were prepared. Thus, Me 2-[2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethylphenyl]-2-fluoromethoxyiminoacetate (preparation given) in MeOH was treated with MeNH2 followed by stirring for 18 h to give 60.5% 2-[2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethylphenyl]-2-fluoromethoxyimino-N-methylacetamide. Tested I at 250 g/ha gave ≥98% control of *Erysiphe graminis* f.sp. *hordei* on barley.
- IT 345905-38-6P 345905-39-7P 345905-40-0P  
345905-41-1P 345905-42-2P 345905-43-3P  
345905-44-4P 345905-45-5P 345905-46-6P  
345905-47-7P 345905-48-8P 345905-49-9P  
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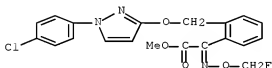
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of phenylpyrazolyloxymethylphenylfluoromethoxyiminoacetates

and

methylacetamides as agrochem. fungicides and insecticides)

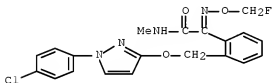
RN 345905-38-6 ZCAPLUS

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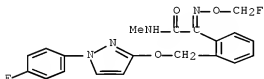
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RN 345905-40-0 ZCAPLUS

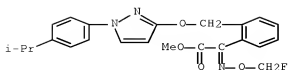
CN Benzeneacetamide,  $\alpha$ -[(fluoromethoxy)imino]-2-[[[1-(4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 345905-41-1 ZCAPLUS

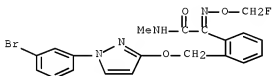
CN Benzeneacetic acid,  $\alpha$ -[(fluoromethoxy)imino]-2-[[[1-[4-(1-methylethyl)phenyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)





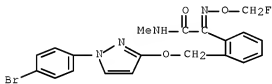
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CN Benzeneacetamide, 2-[[[1-(3-bromophenyl)-1H-pyrazol-3-yl]oxy)methyl]-  
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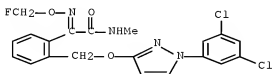
RN 345905-43-3 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-bromophenyl)-1H-pyrazol-3-yl]oxy)methyl]-  
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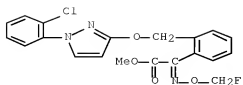
RN 345905-44-4 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy)methyl]-  
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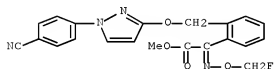


RN 345905-45-5 ZCAPLUS

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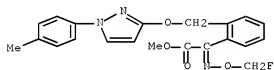


RN 345905-46-6 ZCAPLUS

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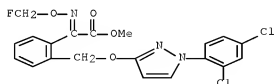
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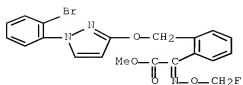
RN 345905-48-8 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)imino]-, methyl ester (9CI) (CA INDEX NAME)



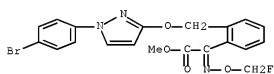
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CN Benzeneacetic acid, 2-[[[1-(2-bromophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
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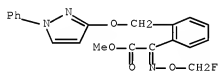
RN 345905-50-2 ZCAPLUS

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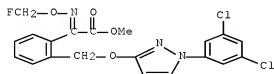
RN 345905-51-3 ZCAPLUS

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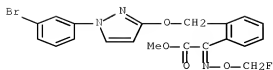
RN 345905-52-4 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)imino]-, methyl ester (9CI) (CA INDEX NAME)



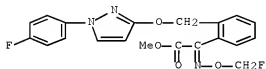
RN 345905-53-5 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(3-bromophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)imino]-, methyl ester (9CI) (CA INDEX NAME)



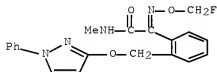
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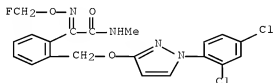
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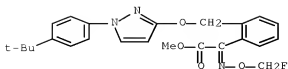
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CN Benzeneacetamide, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -[(fluoromethoxy)imino]-N-methyl- (9CI) (CA INDEX NAME)



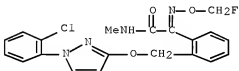
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CN Benzeneacetic acid, 2-[[[1-[4-(1,1-dimethylethyl)phenyl]-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -[(fluoromethoxy)imino]-, methyl ester (9CI) (CA INDEX NAME)



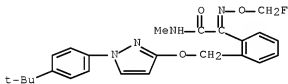
RN 345905-58-0 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(2-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
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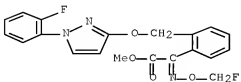
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CN Benzeneacetamide, 2-[[[1-[4-(1,1-dimethylethyl)phenyl]-1H-pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)imino]-N-methyl- (9CI) (CA INDEX NAME)



RN 345905-60-4 ZCAPLUS

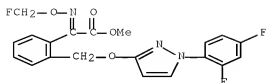
CN Benzeneacetic acid, α-[(fluoromethoxy)imino]-2-[[[1-(2-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 345905-61-5 ZCAPLUS

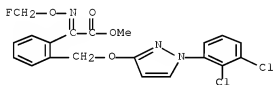
CN Benzeneacetic acid, 2-[[[1-(2,4-difluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)imino]-, methyl ester (9CI) (CA INDEX NAME)

INDEX NAME)



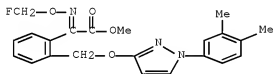
RN 345905-62-6 ZCAPLUS

CN Benzenesacetic acid, 2-[[[1-(2,3-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-alpha-[(fluoromethoxy)imino]-, methyl ester (9CI) (CA INDEX NAME)



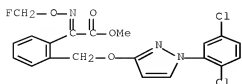
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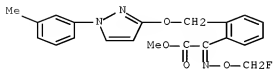


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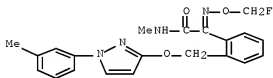
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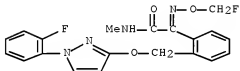
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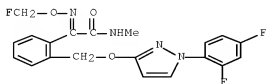
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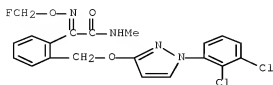
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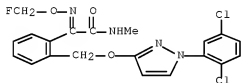
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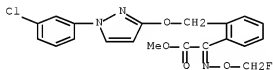
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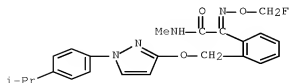
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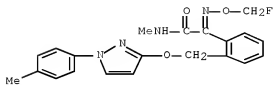
CN Benzeneacetic acid, 2-[[[1-(3-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
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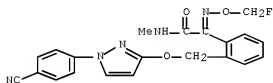
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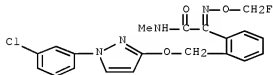
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RN 345905-74-0 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-cyanophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -[[(fluoromethoxy)imino]-N-methyl- (9CI) (CA INDEX NAME)

RN 345905-75-1 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(3-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -[[(fluoromethoxy)imino]-N-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 20 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:452988 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 135:46183

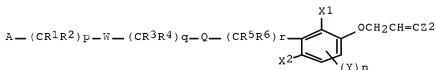
TITLE: Preparation of dihalopropenyloxybenzene derivatives and pesticides containing the same as the active ingredient

INVENTOR(S): Katsurada, Manabu; Kawata, Shinji; Kyomura, Nobuo; Shiga, Yasushi; Fukuchi, Toshiki; Yamada, Risa

PATENT ASSIGNEE(S): Mitsubishi Chemical Corporation, Japan

SOURCE: PCT Int. Appl., 135 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044154	A1	20010621	WO 2000-JP8870	20001214 <--
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OTHER SOURCE(S):		MARPAT 135:46183		
GI				



AB Dihalopropenyloxybenzene derivs. such as (dichloropropenyloxyphenyl)isoxazole, (dichloropropenyloxy)benzene, and (dichloropropenyloxyphenyl)oxadiazole derivs. represented general formula [I; A = H, (un)substituted alkyl, alkenyl, alkynyl, aryl, or heterocyclyl; W = single bond, O, S, SO, SO<sub>2</sub>, NR<sub>7</sub>, N: (R<sub>7</sub>), C(R<sub>7</sub>):NO, ON: C(R<sub>7</sub>), C(R<sub>7</sub>):NN: C(R<sub>8</sub>), CO, CO<sub>2</sub>, O<sub>2</sub>C, N(R<sub>7</sub>)CO, CON(R<sub>7</sub>); wherein R<sub>7</sub>, R<sub>8</sub> = H, alkyl; Q = SO, SO<sub>2</sub>, N: C(R<sub>9</sub>), C(R<sub>9</sub>):NO, ON: C(R<sub>9</sub>), C(R<sub>9</sub>):N: C(R<sub>10</sub>), CO, CO<sub>2</sub>, O<sub>2</sub>C, N(R<sub>9</sub>)CO, CON(R<sub>9</sub>), (un)substituted aryl or heterocyclyl; R<sub>9</sub>, R<sub>10</sub> = H, alkyl; R<sub>1</sub> - R<sub>6</sub> = H, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkoxyalkyl; or R<sub>1</sub> and R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub>, or R<sub>5</sub> and R<sub>6</sub> together form a alkylidene or alkylidenedioxy; p, q, and r are integers and p+q+r≤9, provided that when Q represents SO, SO<sub>2</sub>, C(R<sub>9</sub>):NO, CO<sub>2</sub>, or CONR<sub>9</sub>, r is ≥1; when Q represents Ph, r is 0; when Q represents ON: C(R<sub>9</sub>) or O<sub>2</sub>C and W represents O or S, q is ≥1; X<sub>1</sub>, X<sub>2</sub> = H, halo, alkyl, haloalkyl; Y = halo, alkyl, haloalkyl; n = 0-2; Z = halo] are prepared These compds. have a very excellent effect of controlling pests in the field of agriculture, horticulture, foods, clothing, housing, livestock, pets, etc. (in particular, injurious insects and mites in the fields of agriculture and horticulture) and are highly safe to mammals and fishes. Thus, chlorination of 2,6-dichloro-4-(3,3-dichloro-2-propenyloxy)benzaldoxime (preparation given) by N-chlorosuccinimide in THF at room temperature for 2 h followed by ammonolysis with NH<sub>3</sub> in MeOH at room temperature for 2 h gave 2,6-dichloro-4-(3,3-dichloro-2-propenyloxy)benzamidoxime which was treated with NaH at room temperature for 20 min and at 60° for 25 min and cyclocondensed with Et glycolate to give 3-

[2,6-dichloro-4-(3,3-dichloro-2-propenyloxy)phenyl]-5-hydroxymethyl-1,2,4-oxadiazole. Etherification of the latter alc. with 3-trifluoromethylphenol using PPH<sub>3</sub> and di-Et azodicarboxylate in THF at room temperature for 15.5 h gave 3-[2,6-dichloro-4-((3,3-dichloro-2-propenyl)oxy)phenyl]-5-((3-trifluoromethylphenoxy)methyl)-1,2,4-oxadiazole which at 500 ppm controlled 100% larvae of *Plutella xylostella* *Plutella xylostella* *konaga*, *Spodoptera litura*, and *Adoxophyes* sp.

IT 345199-56-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

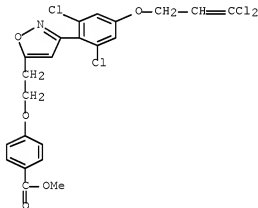
(preparation of dihalopropenyloxybenzene derivs. and pesticides containing

same

as active ingredient)

RN 345199-56-6 ZCAPLUS

CN Benzoic acid, 4-[2-[3-[2,6-dichloro-4-((3,3-dichloro-2-propenyl)oxy)phenyl]-5-isoxazolyl]ethoxy]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 21 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:449811 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 135:46178

TITLE: Preparation of methyl 2-[2-(1-phenyl-1H-pyrazol-3-yl)oxymethylphenyl]-3-fluoromethoxy-2-acrylates as agrochemical fungicides, insecticides, and acaricides.  
INVENTOR(S): Heinemann, Ulrich; Gayer, Herbert; Gerdes, Peter; Krueger, Bernd-Wieland; Maurer, Fritz; Vaupel, Martin; Mauler-Machnik, Astrid; Wachendorff-Neumann, Ulrike; Haenssler, Gerd; Kuck, Karl-Heinz; Erdelen, Christoph; Loesel, Peter

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

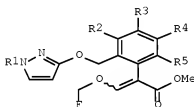
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19961330	A1	20010621	DE 1999-19961330	19991220 <--
WO 2001046153	A1	20010628	WO 2000-EP12322	20001207 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1242384	A1	20020925	EP 2000-985146	20001207
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003518099	T	20030603	JP 2001-547064	20001207
US 6562856	B1	20030513	US 2002-149889	20020614
PRIORITY APPLN. INFO.:			DE 1999-19961330	A 19991220
			WO 2000-EP12322	W 20001207
OTHER SOURCE(S):		MARPAT 135:46178		
GI				



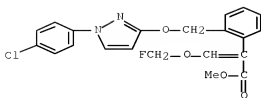
I

AB Title compds. [I; R1 = alkyl, cycloalkyl, aryl; R2-R5 = H, halo, cyano, NO<sub>2</sub>, (halo-substituted) alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl] were prepared. Thus, 2-(2-(2-bromoethylphenyl)-3-(fluoromethoxy)-2-acrylic acid Me ester was stirred for 18 h at room temperature with 1-(4-chlorophenyl)-1,2-dihydro-3H-pyrazol-3-one and NaH in DMF to give 48% Me 2-[2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethylphenyl]-3-fluoromethoxy-2-acrylate. Tested I at 250 g/ha gave 98% control of Puccinia recondita on wheat.

IT 344569-93-3P 344569-94-4P 344569-95-5P  
 344569-96-6P 344569-97-7P 344569-98-8P  
 344569-99-9P 344570-00-2P 344570-01-0P  
 344570-02-1P 344570-03-2P 344570-04-3P  
 344570-05-4P 344570-06-5P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of phenylpyrazolyloxymethylphenylfluoromethoxyacrylic acid Me esters as agrochem. fungicides, insecticides, and acaricides)

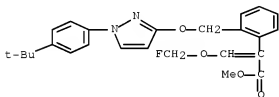
RN 344569-93-3 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)methylene]-, methyl ester (9CI) (CA INDEX NAME)



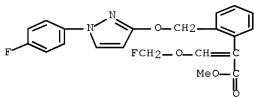
RN 344569-94-4 ZCAPLUS

CN Benzenecetic acid, 2-[[[1-[4-(1,1-dimethylethyl)phenyl]-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -[(fluoromethoxy)methylene]-, methyl ester (9CI)  
(CA INDEX NAME)



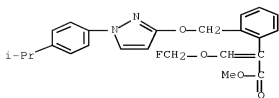
RN 344569-95-5 ZCAPLUS

CN Benzenecetic acid,  $\alpha$ -[(fluoromethoxy)methylene]-2-[[[1-(4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



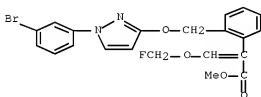
RN 344569-96-6 ZCAPLUS

CN Benzenecetic acid,  $\alpha$ -[(fluoromethoxy)methylene]-2-[[[1-[4-(1-methylethyl)phenyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



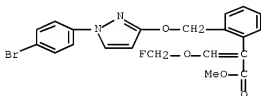
RN 344569-97-7 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(3-bromophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
α-[(fluoromethoxy)methylene]-, methyl ester (9CI) (CA INDEX NAME)



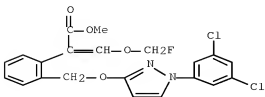
RN 344569-98-8 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-bromophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
α-[(fluoromethoxy)methylene]-, methyl ester (9CI) (CA INDEX NAME)

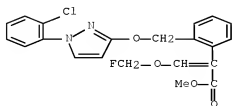


RN 344569-99-9 ZCAPLUS

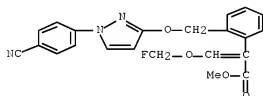
CN Benzeneacetic acid, 2-[[[1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
α-[(fluoromethoxy)methylene]-, methyl ester (9CI)  
(CA INDEX NAME)



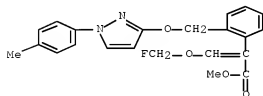
RN 344570-00-9 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
 $\alpha$ -[(fluoromethoxy)methylene]-, methyl ester (9CI) (CA INDEX NAME)

RN 344570-01-0 ZCAPLUS

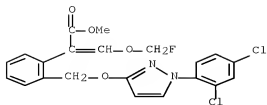
CN Benzeneacetic acid, 2-[[[1-(4-cyanophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
 $\alpha$ -[(fluoromethoxy)methylene]-, methyl ester (9CI) (CA INDEX NAME)

RN 344570-02-1 ZCAPLUS

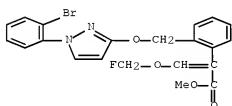
CN Benzeneacetic acid,  $\alpha$ -[(fluoromethoxy)methylene]-2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 344570-03-2 ZCAPLUS

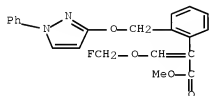
CN Benzeneacetic acid, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
 $\alpha$ -[(fluoromethoxy)methylene]-, methyl ester (9CI)  
 (CA INDEX NAME)



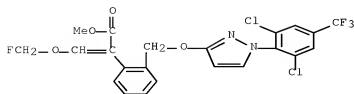
RN 344570-04-3 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2-bromophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
α-[(fluoromethoxy)methylene]-, methyl ester (9CI) (CA INDEX NAME)

RN 344570-05-4 ZCAPLUS

CN Benzeneacetic acid, α-[(fluoromethoxy)methylene]-2-[[[1-phenyl-1H-  
pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

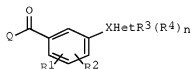
RN 344570-06-5 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-  
pyrazol-3-yl]oxy]methyl]-α-[(fluoromethoxy)methylene]-, methyl ester  
(9CI) (CA INDEX NAME)

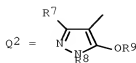
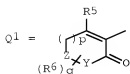


L89 ANSWER 22 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:338507 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 134:340502  
 TITLE: Preparation of benzoylcyclohexanediones and  
 benzoylpyrazoles as herbicides and plant growth  
 regulators.  
 INVENTOR(S): Seitz, Thomas; Willms, Lothar; Auler, Thomas;  
 Bieringer, Hermann; Thuerwaechter, Felix  
 PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
 SOURCE: PCT Int. Appl., 113 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

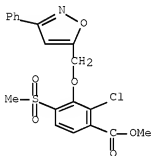
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032636	A1	20010510	WO 2000-EP10460	20001024 <--
W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2397361	A1	20010510	CA 2000-2397361	20001024 <--
BR 2000015338	A	20020723	BR 2000-15338	20001024
EP 1235816	A1	20020904	EP 2000-974443	20001024
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
JP 2003513081	T	20030408	JP 2001-534787	20001024
US 6448201	B1	20020910	US 2000-705001	20001102
PRIORITY APPLN. INFO.:			DE 1999-19953136	A 19991104
			WO 2000-EP10460	W 20001024
OTHER SOURCE(S):	MARPAT 134:340502			
GI				



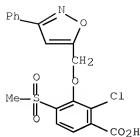
I



- AB Title compds. [I; Q = Q1, Q2; X = OR3a, OCOR3a, OCONHR3a, OSO2R3a, alkyl, alkenyl, alkynyl, Ph, etc.; R1, R2 = H, SH, NO2, halo, cyano, alkyl, alkoxyalkyl, haloalkyl, alkenyl, alkynyl, etc.; R3 = H, OH, halo, SH, amino, cyano, NO2, CHO, alkoxy carbonyl, alkyl carbonyl, etc.; R3a = H, (substituted) alkyl, alkenyl, alkynyl, Ph, phenylalkyl; R4 = [C(R11)2]mAr[C(R11)2]mR12; A = O, S; R5 = OR16, alkylthio, haloalkylthio, alkenylthio, haloalkenylthio, alkynylthio, haloalkynylthio, alkylsulfanyl, haloalkylsulfanyl, etc.; R6 = H, tetrahydropyranyl, tetrahydrothiopyranyl, (substituted) alkyl, cycloalkyl, alkoxy, alkyl carbonyl, alkoxyalkyl, etc.; R7 = H, alkyl, haloalkyl; R8 = alkyl, haloalkyl, (substituted) Ph; R9 = H, alkyl, haloalkyl, alkyl carbonyl, alkoxy carbonyl, haloalkyl carbonyl, alkoxy carbonyl, alkylsulfanyl, haloalkylsulfanyl, (substituted) PhCO, PhCOCH2, PhOCO2, PhSO2, etc.; R11 = H, alkyl, halo; R12 = (substituted) cycloalkyl, cycloalkenyl, aryl, heterocyclyl, heteroaryl, etc.; Y = O, S, NH, CHR6, C(R6)2, alkylimino; Z = bond, O, S, SO, SO2, NH, alkylimino, CHR7, C(R7)2; m, n = 0-2; p = 1, 2; q = 0-4; r = 0, 1], were prepared. Thus, 2-chloro-3-(3-phenylisoxazol-5-yl)methoxy-4-methylsulfonylbenzoic acid (preparation given), cyclohexane-1,3-dione, N'-(3-dimethylaminopropyl)-N-ethylcarbodiimide hydrochloride, and dimethylaminopyridine were stirred in CH2Cl2 to give 60% enol ether, which was stirred with acetone cyanohydrin, Et3N, and KCN in MeCN to give 55% 2-[2-chloro-3-(3-phenylisoxazol-5-yl)methoxy-4-methylsulfonylbenzoyl]cyclohexan-1,3-dione. Several I at  $\leq 1$  kg/ha postemergent gave  $\geq 80\%$  control of Sinapis alba and Stellaria media.
- IT 338461-87-3P 338461-88-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of benzoylcyclohexanediones and benzoylpyrazoles as herbicides and plant growth regulators)
- RN 338461-87-3 ZCAPLUS
- CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[(3-phenyl-5-isoxazolyl)methoxy]-, methyl ester (9CI) (CA INDEX NAME)



- RN 338461-88-4 ZCAPLUS
- CN Benzoic acid, 2-chloro-4-(methylsulfonyl)-3-[(3-phenyl-5-isoxazolyl)methoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 23 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2001:338479 ZCAPLUS Full-text

DOCUMENT NUMBER: 134:353175

TITLE: Preparation of amides and ureas as activators of soluble guanylate cyclase

INVENTOR(S): Selwood, David; Glen, Robert; Reynolds, Karen; Wishart, Grant

PATENT ASSIGNEE(S): University College London, UK

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE: *Patent*

LANGUAGE: English

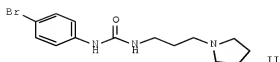
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032604	A1	20010510	WO 2000-GB4249	20001106 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2389773	A1	20010510	CA 2000-2389773	20001106 <--
EP 1237849	A1	20020911	EP 2000-973061	20001106
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003513064	T	20030408	JP 2001-534758	20001106
PRIORITY APPLN. INFO.:			GB 1999-26286	A 19991105
			US 2000-201382P	P 20000502
			WO 2000-GB4249	W 20001106

OTHER SOURCE(S): MARPAT 134:353175

GI



AB The title compds. R4PZNR1R2 [I; R1, R2 = alkyl; R1R2 together form alkylene; Z = alkylene; P = a direct bond, X, Y, W, XY, YW, XYW (wherein W = O, S, NR3; R3 = H, alkyl; Y = UV; V = a direct bond, alkylene; U = CS, CO, SO2, C(:NR); R = H, OH, alkyl; X = O, NR6; R6 = H, alkyl, alkenyl, etc.); R4 = alkyl, alkenyl, alkynyl, etc.], useful in the activation of soluble guanylate cyclase, were prepared E.g., synthesis of the urea II, starting with 4-bromoaniline and 1-(3-aminopropyl)pyrrolidine, was given. Biol. data for compds. I (e.g., IC50 for inhibition of platelet aggregation) were presented.

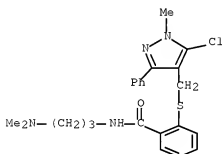
IT 338980-58-8P 338980-88-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of amides and ureas as activators of soluble guanylate

cyclase)

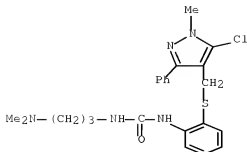
RN 338980-58-8 ZCAPLUS

CN Benzamide, 2-[[[(5-chloro-1-methyl-3-phenyl-1H-pyrazol-4-yl)methyl]thio]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 338980-88-4 ZCAPLUS

CN Urea, N-[2-[[[(5-chloro-1-methyl-3-phenyl-1H-pyrazol-4-yl)methyl]thio]phenyl]-N'-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



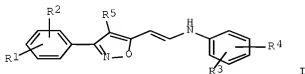
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 24 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:334328 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 134:357554  
 TITLE: Application and formulation of isoxazole derivatives as phosphodiesterase VII inhibitors  
 INVENTOR(S): Eggenweiler, Hans-Michael; Jonas, Rochus; Wolf, Michael; Gassen, Michael; Welge, Thomas  
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany  
 SOURCE: Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19953024	A1	20010510	DE 1999-19953024	19991104 <--
CA 2389647	A1	20010510	CA 2000-2389647	20001018 <--
WO 2001032175	A1	20010510	WO 2000-EP10239	20001018 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000015333	A	20020709	BR 2000-15333	20001018
EP 1225896	A1	20020731	EP 2000-971393	20001018
EP 1225896	B1	20050803		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
HU 200203187	A2	20030128	HU 2002-3187	20001018
JP 2003513042	T	20030408	JP 2001-534380	20001018
AU 781607	B2	20050602	AU 2001-10262	20001018
AT 300945	T	20050815	AT 2000-971393	20001018
ES 2243313	T3	20051201	ES 2000-971393	20001018
NO 2002002123	A	20020503	NO 2002-2123	20020503 <--
US 6531498	B1	20030311	US 2002-129270	20020503
MX 2002PA04441	A	20040910	MX 2002-PA4441	20020503
ZA 2002004430	A	20030903	ZA 2002-4430	20020603

10/517214

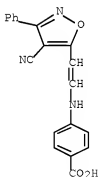
IN 2002KN00743 A 20050311 IN 2002-KN743 20020603  
 PRIORITY APPLN. INFO.: DE 1999-19953024 A 19991104  
 WO 2000-EP10239 W 20001018  
 OTHER SOURCE(S): MARPAT 134:357554  
 GI



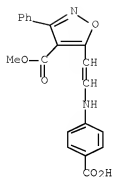
AB The invention concerns isoxazole derivs. of the formula (I) to be used as phosphodiesterase VII inhibitors and their drug formulations. In I R1,R2,R3,R4 = Hal,OA,SA,A,H,COOA,CN,CONA1A2,R5COOA1; A1,A2 = H, A, Alkenyl, Cycloalkyl, alkylene cycloalkyl; A = C1-C10 alkyl, Hal = F, Cl, Br, J. Non-physiol. salts and solvates of the compds. can be used too. The compns. are used for the therapy of asthma, chronic bronchitis, dermatitis, autoimmune diseases etc. Thus an eye-drop solution contained 1 g of the formula I compound; further components in g were: NaH2PO4x2H2O 9.38; Na2HPO4x12H2O 28.48; benzalkonium chloride 0.1; double distilled water 940; pH 6.8.

IT 303995-75-7 303995-80-4 320424-92-8  
 338394-43-7 338402-64-5 338403-15-9  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (application and formulation of isoxazole derivs. as phosphodiesterase VII inhibitors)

RN 303995-75-7 ZCAPLUS  
 CN Benzoic acid, 4-[[2-(4-cyano-3-phenyl-5-isoxazolyl)ethenyl]amino]- (9CI) (CA INDEX NAME)

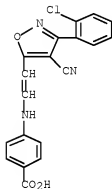


RN 303995-80-4 ZCAPLUS  
 CN 4-Isoxazolecarboxylic acid, 5-[2-[(4-carboxyphenyl)amino]ethenyl]-3-phenyl-, 4-methyl ester (9CI) (CA INDEX NAME)



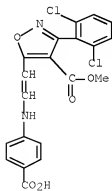
RN 320424-92-8 ZCAPLUS

CN Benzoic acid, 4-[[2-[3-(2-chlorophenyl)-4-cyano-5-isoxazolyl]ethenyl]amino]- (9CI) (CA INDEX NAME)



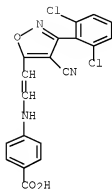
RN 338394-43-7 ZCAPLUS

CN 4-Isioxazolecarboxylic acid, 5-[2-[(4-carboxyphenyl)amino]ethenyl]-3-(2,6-dichlorophenyl)-, 4-methyl ester (9CI) (CA INDEX NAME)



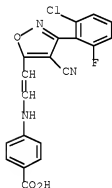
RN 338402-64-5 ZCAPLUS

CN Benzoic acid, 4-[[2-[4-cyano-3-(2,6-dichlorophenyl)-5-isoxazolyl]ethenyl]amino]- (9CI) (CA INDEX NAME)



RN 338403-15-9 ZCAPLUS

CN Benzoic acid, 4-[[2-[3-(2-chloro-6-fluorophenyl)-4-cyano-5-isoxazolyl]ethenyl]amino]- (9CI) (CA INDEX NAME)



L89 ANSWER 25 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:265369 ZCAPLUS Full-text

DOCUMENT NUMBER: 134:295620

TITLE: Preparation and effect of 4-methoxyphenylpropionic acid derivatives useful in insulin resistance improvement

INVENTOR(S): Shinoda, Masanobu; Emori, Eita; Matsuura, Fumiyoshi; Kaneko, Toshihiko; Ohi, Norihito; Kasai, Shunji; Yoshitomi, Hideki; Yamazaki, Kazuto; Miyashita, Sadakazu; Hibara, Taro; Seiki, Hisashi; Clark, Richard; Harada, Hitoshi

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 350 pp.

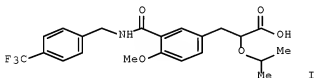
CODEN: PIXXD2

DOCUMENT TYPE: Patent



LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025181	A1	20010412	WO 2000-JP6788	20000929 <--
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
TW 262185	B	20060921	TW 2000-89120087	20000928
CA 2385081	A1	20010412	CA 2000-2385081	20000929 <--
AU 200074499	A	20010510	AU 2000-74499	20000929 <--
AU 776267	B2	20040902		
EP 1216980	A1	20020626	EP 2000-962993	20000929
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 517719	A	20041029	NZ 2000-517719	20000929
US 6884821	B1	20050426	US 2002-88916	20000929
PRIORITY APPLN. INFO.:				
			JP 1999-282079	A 19991001
			JP 1999-369442	A 19991227
			JP 2000-38795	A 20000216
			JP 2000-104260	A 20000406
			WO 2000-JP6788	W 20000929
OTHER SOURCE(S): MARPAT 134:295620				
GI				



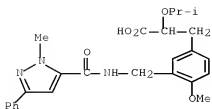
AB Title compds. [Y:L:X:TZM:CWR1; R1 is hydrogen, hydroxyl, alkyl; L is single bond, double bond, alkylene; M is single bond, alkylene; T is single bond, alkylene; W is carboxyl, amide; X is oxygen, alkenylene; Y is aromatic hydrocarbon; Z is aromatic hydrocarbon; colon represents single, or double bond], salts, esters, and hydrates are prepared and are useful in prevention or treatment of diabetes and X-syndrome. Thus, the title compound I was prepared and biol. tested.

IT 334012-76-9P 334012-77-0P 334012-78-1P  
 334012-79-2P 334012-80-5P 334012-85-0P  
 334012-86-1P 334012-87-2P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation and effect of methoxyphenylpropionic acid derivs. useful in insulin resistance improvement as PPAR agonists)

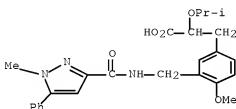
RN 334012-76-9 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy- $\alpha$ -(1-methylethoxy)-3-[[[(1-methyl-3-phenyl-1H-pyrazol-5-yl)carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



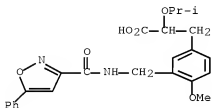
RN 334012-77-0 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy- $\alpha$ -(1-methylethoxy)-3-[[[(1-methyl-5-phenyl-1H-pyrazol-3-yl)carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



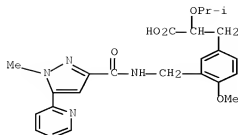
RN 334012-78-1 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy- $\alpha$ -(1-methylethoxy)-3-[[[(5-phenyl-3-isoxazolyl)carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



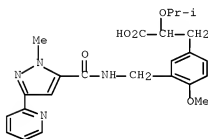
RN 334012-79-2 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy- $\alpha$ -(1-methylethoxy)-3-[[[(1-methyl-5-(2-pyridinyl)-1H-pyrazol-3-yl)carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



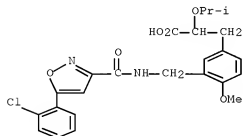
RN 334012-80-5 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy- $\alpha$ -(1-methylethoxy)-3-[[[1-methyl-3-(2-pyridinyl)-1H-pyrazol-5-yl]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



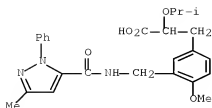
RN 334012-85-0 ZCAPLUS

CN Benzenepropanoic acid, 3-[[[5-(2-chlorophenyl)-3-isoxazolyl]carbonyl]amino]methyl]-4-methoxy- $\alpha$ -(1-methylethoxy)- (9CI) (CA INDEX NAME)



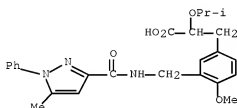
RN 334012-86-1 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy- $\alpha$ -(1-methylethoxy)-3-[[[3-methyl-1-phenyl-1H-pyrazol-5-yl]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



RN 334012-87-2 ZCAPLUS

CN Benzenepropanoic acid, 4-methoxy-α-(1-methylethoxy)-3-[[[(5-methyl-1-phenyl-1H-pyrazol-3-yl)carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 26 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:137199 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:178561

TITLE: Preparation of heterocyclylmethyl substituted benzoic acids for the treatment of diabetes mellitus

INVENTOR(S): Hargreaves, Rodney Brian; Whittamore, Paul Robert Owen

PATENT ASSIGNEE(S): AstraZeneca AB, Swed.; AstraZeneca AB

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001012612	A1	20010222	WO 2000-GB3126	20000814 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2381090	A1	20010222	CA 2000-2381090	20000814 <--
BR 2000013374	A	20020507	BR 2000-13374	20000814 <--
EP 1210339	A1	20020605	EP 2000-953309	20000814
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

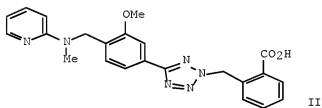
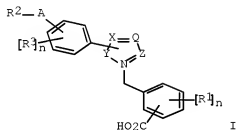
10/517214

IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003507372	T	20030225	JP 2001-517510	20000814
AU 766790	B2	20031023	AU 2000-65823	20000814
NZ 517060	A	20031128	NZ 2000-517060	20000814
ZA 2002000670	A	20030424	ZA 2002-670	20020124
US 6787556	B1	20040907	US 2002-48392	20020129
MX 2002PA01597	A	20020702	MX 2002-PA1597	20020214
NO 2002000764	A	20020417	NO 2002-764	20020215 <--
PRIORITY APPLN. INFO.:			GB 1999-19413	A 19990818
			WO 2000-GB3126	W 20000814

OTHER SOURCE(S): MARPAT 134:178561

GI



AB The title compds. [I; Q, X, Y, Z = CRa, CRb:CRc, N (wherein Ra, Rb, Rc = H, halo, a bond, such that together with the nitrogen atom to which Y and Z are attached, they form a 5-6 membered aromatic ring); R1, R3 = alkyl, halo, haloalkyl, etc.; n = 0-2; A = alkylene, alkenylene, alkynylene optionally interposed by a heteroatom; R2 = (un)substituted aryl, heterocyclyl, cycloalkyl] which act as peroxisome proliferator activated receptor (PPAR) agonists, in particular states of insulin resistance including type 2 gamma receptors (PPAR) (data given), and so are useful therapeutically in the treatment of diabetes mellitus, were prepared E.g., a multi-step synthesis of the benzoic acid II was given.

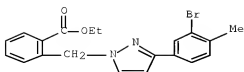
IT 326912-92-9P 326912-93-0P 326912-94-1P  
326912-98-5P 326912-99-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclylmethyl substituted benzoic acids for the treatment of diabetes mellitus)

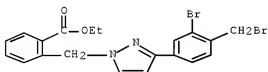
RN 326912-92-9 ZCAPLUS

CN Benzoic acid, 2-[[3-(3-bromo-4-methylphenyl)-1H-pyrazol-1-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



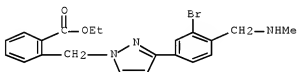
RN 326912-93-0 ZCAPLUS

CN Benzoic acid, 2-[[3-[3-bromo-4-(bromomethyl)phenyl]-1H-pyrazol-1-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



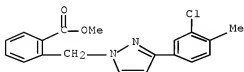
RN 326912-94-1 ZCAPLUS

CN Benzoic acid, 2-[[3-[3-bromo-4-[(methylamino)methyl]phenyl]-1H-pyrazol-1-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



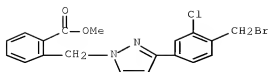
RN 326912-98-5 ZCAPLUS

CN Benzoic acid, 2-[[3-[3-chloro-4-methylphenyl]-1H-pyrazol-1-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 326912-99-6 ZCAPLUS

CN Benzoic acid, 2-[[3-[4-(bromomethyl)-3-chlorophenyl]-1H-pyrazol-1-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 27 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:101128 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:147599

TITLE: Preparation of 2-pyrazolin-5-ones as inhibitors of serine/threonine and tyrosine kinase activity

INVENTOR(S): Moset, Marina M.; Berlanga, Jose Maria Castellano; Fernandez, Isabel F.; Calderwood, David J.; Rafferty, Paul; Arnold, Lee

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 226 pp.

CODEN: PIXXD2

DOCUMENT TYPE: *Patent*

LANGUAGE: English

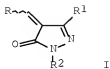
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001009121	A2	20010208	WO 2000-US20628	20000728 <--
WO 2001009121	A3	20020502		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 7060822	B1	20060613	US 2000-621468	20000724
CA 2380644	A1	20010208	CA 2000-2380644	20000728 <--
BR 2000012896	A	20020618	BR 2000-12896	20000728
EP 1218373	A2	20020703	EP 2000-950852	20000728
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
TR 200200928	T2	20020923	TR 2002-928	20000728
JP 2003506368	T	20030218	JP 2001-514324	20000728
HU 200400540	A2	20040628	HU 2004-540	20000728
HU 200400540	A3	20040928		
NZ 516850	A	20040924	NZ 2000-516850	20000728
IN 2002MN00057	A	20060505	IN 2002-MN57	20020116
ZA 2002000477	A	20030422	ZA 2002-477	20020118
NO 2002000487	A	20020312	NO 2002-487	20020130 <--
MX 2002PA01088	A	20030922	MX 2002-PA1088	20020130
BG 106392	A	20021229	BG 2002-106392	20020206
PRIORITY APPLN. INFO.:			US 1999-146563P	P 19990730
			WO 2000-US20628	W 20000728

OTHER SOURCE(S): MARPAT 134:147599

GI



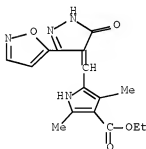
AB The title compds. [I; R = (un)substituted alkyl, aryl, cycloalkyl, etc.; R1 = H, AZ; R2 = H, (un)substituted alkyl, aryl, etc.; A = (CH2)<sub>n</sub>, (CH2)<sub>n</sub>NH, (CH2)<sub>n</sub>O, etc.; Z = H, alkyl, aralkyl, etc.] which are inhibitors of serine/threonine and tyrosine kinase activity, were prepared and formulated. Thus, reacting 3-cyclopropyl-2-pyrazolin-5-one with 4,5-dimethylpyrrole-2-carboxaldehyde in the presence of piperidine in EtOH afforded 30% I [R = 4,5-dimethylpyrrol-2-yl; R1 = cyclopropyl]. All exemplified compds. I inhibit KDR kinase at 50  $\mu$ M and some of them also significantly inhibit other PTKs such as lck at  $\leq$  50  $\mu$ M, and cdc2 at  $<$  50  $\mu$ M. Several of the tyrosine kinases, whose activity is inhibited by the compds. I are involved in angiogenic processes. Thus, the compds. I can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor. These compds. I can be used to treat cancer and hyperproliferative disorders.

IT 324549-32-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of 2-pyrazolin-5-ones as inhibitors of serine/threonine and tyrosine kinase activity)

RN 324549-32-8 ZCAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 5-[[1,5-dihydro-3-(5-isoxazolyl)-5-oxo-4H-pyrazol-4-ylidene]methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 28 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:31489 ZCAPLUS Full-text

DOCUMENT NUMBER: 134:100865

TITLE: Preparation of 1-(4-quinolyl)-1H-pyrazoles as agrochemical fungicides

INVENTOR(S): Emeric, Gilbert; Gary, Stephanie; Gerusz, Vincent;



Gourlaouen, Nelly; Hartmann, Benoit; Huser, Nathalie;  
Lachaise, Helene; Le Hir De Fallois, Loic; Perez,  
Joseph; Wegmann, Thomas  
Aventis CropScience SA, Fr.  
PCT Int. Appl., 267 pp.  
CODEN: PIXXD2

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

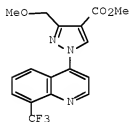
Patent

French

1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002385	A1	20010111	WO 2000-FR1816	20000629 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RM:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2795726	A1	20010105	FR 1999-8596	19990630 <--
PRIORITY APPLN. INFO.:			FR 1999-8596	A 19990630
OTHER SOURCE(S):	MARPAT 134:100865			

GI



II

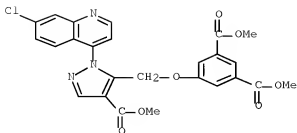
AB R1R2 [I; R1 = (un)substituted 4-quinolyl; R2 = di- or trisubstituted pyrazolo] were prepared. Thus, MeOCH2COCH2CO2Me was condensed with HC(OMe)2NMe2 and the product cyclocondensed with H2NNH2 to give Me 5-methoxymethylpyrazole-4-carboxylate which was N-arylated by 4-chloro-8-trifluoromethylquinoline to give title compound II. Data for biol. activity of I were given.

IT 318492-52-3P 318492-66-3P

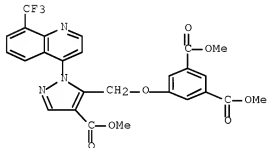
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 1-(4-quinolyl)-1H-pyrazoles as agrochem. fungicides)

RN 318492-52-3 ZCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[[1-(7-chloro-4-quinolinyl)-4-(methoxycarbonyl)-1H-pyrazol-5-yl]methoxy]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 318492-66-9 ZCAPLUS  
 CN 1,3-Benzenedicarboxylic acid, 5-[[4-(methoxycarbonyl)-1-[8-(trifluoromethyl)-4-quinoliny]-1H-pyrazol-5-yl]methoxy]-, dimethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 29 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:5870 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 134:127200  
 TITLE: Activity of the new BASF strobilurin fungicide, BAS 500 F, against *Plasmopara viticola* on grapes  
 AUTHOR(S): Stierl, R.; Scherer, M.; Schrof, W.; Butterfield, E. J.  
 CORPORATE SOURCE: Agricultural Center, BASF AG, Limburgerhof, 67114, Germany  
 SOURCE: BCPC Conference--Pests & Diseases (2000), (Vol. 1), 261-266  
 CODEN: BCDCAE  
 PUBLISHER: British Crop Protection Council  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: English  
 AB BAS 500 F is the new, broad-spectrum strobilurin fungicide being developed by BASF. The compound provides excellent control of *Plasmopara viticola*, the pathogen which causes downy mildew of grapevines. Field trials, under practical conditions, have shown that BAS 500 F controls this disease effectively on leaves and berries. Microscopic studies revealed that this good control is due to high activity of the compound against several developmental stages of the pathogen. The zoospores are extremely sensitive

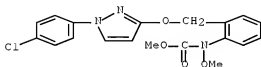
to BAS 500 F and react to contact with lysis. If zoospores escape lysis, the germination of encysted zoospores is stopped effectively by a preventative treatment. After curative application, the compound stops further development of the mycelium in the leaves.

IT 175013-18-0, BAS 500F

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(activity against Plasmopara viticola on grapes)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 30 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:1406 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:127186

TITLE: BAS 500 F - the new broad-spectrum strobilurin fungicide

AUTHOR(S): Ammermann, E.; Lorenz, G.; Schelberger, K.; Mueller, B.; Kirstgen, R.; Sauter, H.

CORPORATE SOURCE: Agricultural Center, BASF AG, Limburgerhof, 67 114, Germany

SOURCE: BCPC Conference--Pests & Diseases (2000),  
(Vol. 2), 541-548  
CODEN: BCDCAE

PUBLISHER: British Crop Protection Council

DOCUMENT TYPE: *Journal*

LANGUAGE: English

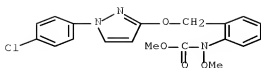
AB BAS 500 F is the code number of the new, broad-spectrum strobilurin fungicide developed by BASF. As a foliar spray, it controls the major plant pathogens from the Ascomycete, Basidiomycete, Deuteromycete and Oomycete classes of fungi. BAS 500 F has protectant, curative, translaminar and locosystemic properties, and thus a broad and flexible application window. It is a highly active fungicide for cereals, peanuts and other field crops, grapes, vegetables, bananas, citrus and turf with excellent crop safety. The expected dose rate ranges from 50 - 250 g a.i./ha for food crops and from 280 - 560 g a.i./ha for turf. The compound has a favorable toxicol. and ecotoxicol. profile and is safe to users and the environment. It is classified by US-EPA as a "reduced risk candidate". BAS 500 F is being developed and registered as a solo product and with various premix partners, in a range of formulations. Market introduction is expected for the 2002 season.

IT 175013-18-0, BAS 500F

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(broad-spectrum strobilurin fungicide)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 31 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:1386 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 134:127181

TITLE: Activity of the new BASF strobilurin fungicide, BAS 500 F, against Septoria tritici on wheat

AUTHOR(S): Stierl, R.; Merk, M.; Schrof, W.; Butterfield, E. J.

CORPORATE SOURCE: Agricultural Center, BASF AG, Limburgerhof, 67 114, Germany

SOURCE: BCPC Conference--Pests & Diseases (2000), (Vol. 3), 859-864

CODEN: BCDCAE

PUBLISHER: British Crop Protection Council

DOCUMENT TYPE: *Journal*

LANGUAGE: English

AB BAS 500 F is the new, broad-spectrum strobilurin fungicide being developed by BASF. Field trials under practical conditions have shown that BAS 500 F effectively controls Septoria tritici blotch of wheat resulting in an increased yield in comparison to other strobilurin and triazole fungicides. Glasshouse and semifield trials in combination with microscopic techniques, i.e. conventional fluorescent and confocal laser scanning microscopic techniques, revealed that this good control is due to a very high intrinsic activity of the compound against several development stages of the pathogen. After a preventative treatment, germination of pycnidiospores is effectively stopped by BAS 500 F. Under curative conditions, the compound stops further development of the mycelium in the leaves and the subsequent yellowing and necrosis of leaf tissue.

IT 175013-18-0, BAS 500F

RL: AGR (Agricultural use); BAC (Biological activity or effector, except

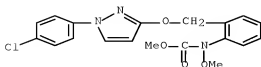
adverse); BSU (Biological study, unclassified); BIOL (Biological study);

USES (Uses)

(activity against Septoria tritici on wheat)

RN 175013-18-0 ZCAPLUS

CN Carbanic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



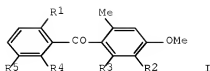
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 32 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2000:900389 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 134:38252  
 TITLE: Synergistic fungicidal combinations of benzophenones with strobilurins, cyanoimidazoles, and carbonic acid amides  
 INVENTOR(S): Dalton, Ian Paul  
 PATENT ASSIGNEE(S): Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.  
 SOURCE: PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

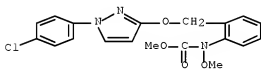
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076317	A1	20001221	WO 2000-EP5433	20000613 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1185173	A1	20020313	EP 2000-951283	20000613 <--
EP 1185173	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011615	A	20020423	BR 2000-11615	20000613 <--
JP 2003501448	T	20030114	JP 2001-502673	20000613
AT 241268	T	20030615	AT 2000-951283	20000613
PT 1185173	T	20031031	PT 2000-951283	20000613
ES 2200905	T3	20040316	ES 2000-951283	20000613
US 2002107246	A1	20020808	US 2001-997607	20011129
US 6689776	B2	20040210		
PRIORITY APPLN. INFO.:				
			GB 1999-13787	A 19990614
			GB 1999-13789	A 19990614
			GB 1999-13792	A 19990614
			GB 1999-13794	A 19990614
			GB 1999-13796	A 19990614
			GB 1999-13798	A 19990614
			GB 1999-13803	A 19990614
			GB 1999-13805	A 19990614
			GB 1999-13807	A 19990614
			GB 1999-13808	A 19990614
			GB 1999-13810	A 19990614
			GB 1999-13812	A 19990614
			GB 1999-13813	A 19990614
			GB 1999-13814	A 19990614
			GB 1999-13816	A 19990614
			GB 1999-13817	A 19990614
			GB 1999-13818	A 19990614
			GB 1999-13820	A 19990614

GB 1999-13822	A 19990614
GB 1999-13824	A 19990614
GB 1999-13826	A 19990614
GB 1999-13827	A 19990614
WO 2000-EP5433	W 20000613

GI



- AB The invention relates to a method of combating phytopathogenic diseases on crop plants which comprises applying to the crop plants or the locus thereof being infested with said phytopathogenic disease an effective amount of a combination of a benzophenone I (R1 = methoxy, Me; R2 = C1-C4alkoxy, 2-halobenzyloxy; R3 = C1-C4alkoxy; R4 = C1-C4alkyl, halo, or trifluoromethyl; R5 = H, halo, C1-C4alkoxy, trifluoromethyl, or nitro) in association with a compound selected from strobilurins, cyanoimidazoles, and carbonic acid amides.
- IT 175013-18-0D, mixts. with benzophenones  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (in synergistic fungicidal combinations)
- RN 175013-18-0 ZCAPLUS
- CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)

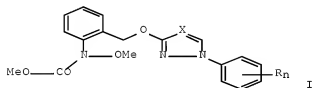


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 33 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2000:367993 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 133:1743  
 TITLE: Synergistic fungicidal mixtures  
 Schelberger, Klaus; Scherer, Maria; Saur, Reinhold;  
 Sauter, Hubert; Muller, Bernd; Birner, Erich;  
 Leyendecker, Joachim; Ammermann, Eberhard; Lorenz,  
 Gisela; Strathmann, Siegfried  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: PCT Int. Appl., 22 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000030450	A1	20000602	WO 1999-EP8512	19991106 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2351819	A1	20000602	CA 1999-2351819	19991106 <--
BR 9915503	A	20010807	BR 1999-15503	19991106 <--
EP 1130967	A1	20010912	EP 1999-972495	19991106 <--
EP 1130967	B1	20030723		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
HU 200104414	A2	20020328	HU 2001-4414	19991106 <--
JP 2002530303	T	20020917	JP 2000-583348	19991106
AT 245354	T	20030815	AT 1999-972495	19991106
NZ 512191	A	20030829	NZ 1999-512191	19991106
AU 767577	B2	20031120	AU 2000-11609	19991106
PT 1130967	T	20031128	PT 1999-972495	19991106
CZ 293437	B6	20040414	CZ 2001-1737	19991106
ES 2204196	T3	20040416	ES 1999-972495	19991106
RU 2244420	C2	20050120	RU 2001-116595	19991106
SK 284747	B6	20051103	SK 2001-678	19991106
IL 143101	A	20051218	IL 1999-143101	19991106
MX 2001PA04959	A	20010731	MX 2001-PA4959	20010517 <--
US 6503936	B1	20030107	US 2001-856034	20010517
BG 105537	A	20020430	BG 2001-105537	20010522 <--
BG 65003	B1	20061229		
ZA 2001004962	A	20020618	ZA 2001-4962	20010618
IN 2001CN00836	A	20050304	IN 2001-CN836	20010618
PRIORITY APPLN. INFO.:			DE 1998-19853503	A 19981119
OTHER SOURCE(S):			WO 1999-EP8512	W 19991106
GI				
MARPAT 133:1743				



AB A synergistic fungicidal mixture contains a carbamate I [X = CH or N; n = 0, 1 or 2; R = halo or Cl-4 (halo)alkyl] and a copper compound

IT 216659-76-6 271249-36-6

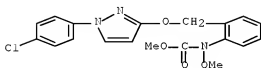
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal mixture)

RN 216659-76-6 ZCAPLUS  
 CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with copper hydroxide sulfate (Cu<sub>4</sub>(OH)<sub>6</sub>(SO<sub>4</sub>)) (9CI) (CA INDEX NAME)

CM 1

CRN 175013-18-0

CMF C19 H18 Cl N3 O4



CM 2

CRN 1333-22-8

CMF Cu . H O . O4 S

CCI TIS

CM 3

CRN 14808-79-8

CMF O4 S



CM 4

CRN 14280-30-9

CMF H O

OH-

CM 5

CRN 7440-50-8

CMF Cu

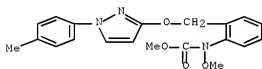


Cu

RN 271249-36-6 ZCAPLUS  
 CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester, mixt. with copper hydroxide sulfate  
 (Cu<sub>4</sub>(OH)<sub>6</sub>(SO<sub>4</sub>)) (9CI) (CA INDEX NAME)

CM 1

CRN 175013-22-6  
 CMF C20 H21 N3 O4



CM 2

CRN 1333-22-8  
 CMF Cu . H O . O4 S  
 CCI TIS

CM 3

CRN 14808-79-8  
 CMF O4 S



CM 4

CRN 14280-30-9  
 CMF H O

OH-

CM 5

CRN 7440-50-8

CMF Cu

Cu

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 34 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 2000:349202 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 132:344443  
 TITLE: Synergistic fungicidal compositions.  
 INVENTOR(S): Mauler-Machnik, Astrid; Wachendorf-Neumann, Ulrike;  
 Gayer, Herbert  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 18 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19939841	A1	20000525	DE 1999-19939841	19990823 <--
IN 1999B000745	A	20050304	IN 1999-B0745	19991102
CA 2351500	A1	20000602	CA 1999-2351500	19991108 <--
WO 2000030440	A2	20000602	WO 1999-EP8558	19991108 <--
WO 2000030440	A3	20000831		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 200010460	A	20000613	AU 2000-10460	19991108 <--
AU 752441	B2	20020919		
BR 9915518	A	20010717	BR 1999-15518	19991108 <--
EP 1130963	A2	20010912	EP 1999-953975	19991108 <--
EP 1130963	B1	20050302		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200101379	T2	20011121	TR 2001-200101379	19991108 <--
HU 200104483	A2	20020328	HU 2001-4483	19991108 <--
TR 200103810	T2	20020621	TR 2001-200103810	19991108
TR 200103811	T2	20020621	TR 2001-200103811	19991108
JP 2002530297	T	20020917	JP 2000-583338	19991108
EP 1506711	A2	20050216	EP 2004-24463	19991108
EP 1506711	A3	20050427		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				

10/517214

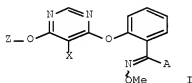
AT 289750	T	20050315	AT 1999-953975	19991108
PT 1130963	T	20050630	PT 1999-953975	19991108
ES 2238853	T3	20050901	ES 1999-953975	19991108
TW 521994	B	20030301	TW 1999-88119807	19991115
US 6559136	B1	20030506	US 2001-856023	20010516
MX 2001PA05029	A	20000827	MX 2001-PA5029	20010518 <--
US 2003161896	A1	20030828	US 2003-371770	20030221

PRIORITY APPLN. INFO.:

DE 1998-19853559	A1	19981120
DE 1999-19939841	A	19990823
EP 1999-953975	A3	19991108
WO 1999-EP8558	W	19991108
US 2001-856023	A3	20010516

OTHER SOURCE(S): MARPAT 132:344443

GI

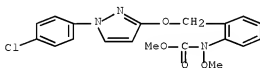


AB The title compns. comprise the pyrimidine derivs. I [Z = (un)substituted Ph; X = halo; A = heterocyclyl, CO<sub>2</sub>Me or CHNMe] and any of a large number of known fungicides.

IT 175013-18-00, mixts. with pyrimidine derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)

RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



L89 ANSWER 35 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:335180 ZCAPLUS Full-text

DOCUMENT NUMBER: 132:330856

TITLE: Synergistic fungicidal combinations comprising a thieno[2,3-d]pyrimidin-4-one

INVENTOR(S): Walter, Harald; Forster, Birgit; Knauf-beiter, Gertrude

PATENT ASSIGNEE(S): Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft MbH

SOURCE: PCT Int. Appl., 44 pp.

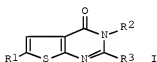
CODEN: PIXXD2

DOCUMENT TYPE: *Patent*  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027200	A1	20000518	WO 1999-EP8449	19991104 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2347800	A1	20000518	CA 1999-2347800	19991104 <--
BR 9915059	A	20010807	BR 1999-15059	19991104 <--
TR 200101275	T2	20010821	TR 2001-200101275	19991104 <--
EP 1124422	A1	20010822	EP 1999-971665	19991104 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
HU 200104350	A2	20020328	HU 2001-4350	19991104 <--
JP 2002529378	T	20020910	JP 2000-580448	19991104
AU 756283	B2	20030109	AU 2000-13793	19991104
EG 22286	A	20021231	EG 1999-1392	19991106
MX 2001PA04327	A	20020314	MX 2001-PA4327	20010430 <--
IN 2001CN00618	A	20050304	IN 2001-CN618	20010503
US 2002035038	A1	20020321	US 2001-849630	20010504 <--
PRIORITY APPLN. INFO.:				
			GB 1998-24331	A 19981106
			WO 1999-EP8449	W 19991104

OTHER SOURCE(S): MARPAT 132:330856

GI



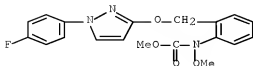
AB The title compns. comprise a thieno[2,3-d]pyrimidin-4-one I (R1= halo; R2, R3 = C2-5 alkyl or methylcyclopropyl) in association with either an azole fungicide, an anilinopyrimidine fungicide, a morpholine fungicide, or strobilurin compound, a pyrrole derivative, a phenylamide, a dithiocarbamate fungicide (mancozeb, maneb, metiram or zineb), a copper compound (copper hydroxide, copper oxychloride, copper sulfate or oxine-copper), sulfur, prochloraz, triflumizole, pyrifenoxy, acibenzolar-S-Me, chlorothalonil, cymoxanil, dimethomorph, famoxadone, quinoxifen, fenpropidine, spiromoxamine, triazoxazole, BAS 50001F, hymexazole, pecycuron, fenamidone, MON65500, or guazatine.

IT 175013-33-9D, BAS 50001F, mixts. with thieno[2,3-d]pyrimidin-4-one derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns.)

RN 175013-33-9 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 36 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:235080 ZCAPLUS Full-text

DOCUMENT NUMBER: 133:4618

TITLE: Novel retinoic acid receptor  $\alpha$  agonists:

syntheses and evaluation of pyrazole derivatives

AUTHOR(S): Kikuchi, Kouichi; Hibi, Shigeki; Yoshimura, Hiroyuki; Tai, Kenji; Hida, Takayuki; Tokuhara, Naoki; Yamauchi, Toshihiko; Nagai, Mitsuo

CORPORATE SOURCE: Tsukuba Basic Research Laboratories for Drug Discovery, Eisai Co. Ltd., Tsukuba, 300-2635, Japan

SOURCE: Bioorganic &amp; Medicinal Chemistry Letters (2000), 10(7), 619-622

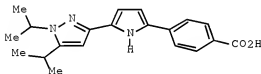
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: *Journal*

LANGUAGE: English

GI



I

AB A series of pyrazole derivs. have been prepared as retinoic acid receptor (RAR) agonists. One of them, 4-[5-(1,5-diisopropyl-1H-3-pyrazolyl)-1H-2-pyrrolyl]benzoic acid (I), which possesses a 2,5-disubstituted pyrrole moiety, showed selective transactivation activity for the RAR $\alpha$  receptor, and had highly potent cell-differentiating activity on HL-60 cells.

IT 370585-16-5P

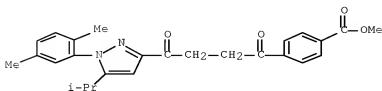
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn, biol. activity and structure activity relationships of (alkylisopropylpyrazolyl)pyrrolylbenzoic acids as retinoic acid receptor  $\alpha$  agonists)

RN 270585-16-5 ZCAPLUS

CN Benzoic acid, 4-[4-[1-(2,5-dimethylphenyl)-5-(1-methylethyl)-1H-pyrazol-3-

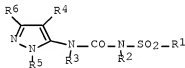
yll-1,4-dioxobutyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 37 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2000:123270 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 132:151816  
 TITLE: Preparation of sulfonylureidopyrazoles as endothelin converting enzyme inhibitors  
 INVENTOR(S): Hasegawa, Hirohiko; Yamazaki, Kazuto; Kanaoka, Shoji; Ohashi, Naohito  
 PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 54 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000053649	A	20000222	JP 1998-226684	19980811 <--
PRIORITY APPLN. INFO.:			JP 1998-226684	19980811
OTHER SOURCE(S):	MARPAT	132:151816		
GI				



I

AB The title compds. I [R1 = alkyl, etc.; R2, R3 = H, alkyl, etc.; R4 = H, halo, etc.; R5 = H, alkyl, etc.; R6 = RB1YAl; A1, B1 = alkylene, etc.; Y = OCO, etc.; R = H, cycloalkyl, etc.] are prepared I are useful in the treatment of cardiovascular diseases such as hypertension, arteriosclerosis, myocardial infarction, etc., cerebrovascular diseases, kidney diseases, asthma, complications of diabetes, endotoxin shock, etc. 4-Cyano-1-phenyl-3-benzoyloxycarbonylmethyl-5-[3-(4-chlorobenzenesulfonyl)ureido]-(1H)pyrazole in vitro showed IC50 of 0.058  $\mu$ M against endothelin converting enzyme.

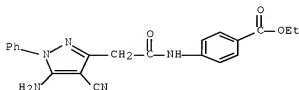
IT 257954-72-EP 257954-77-1P 257954-82-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of sulfonylureidopyrazoles as endothelin converting enzyme inhibitors)

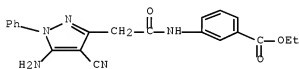
RN 257954-72-6 ZCAPLUS

CN Benzoic acid, 4-[[[(5-amino-4-cyano-1-phenyl-1H-pyrazol-3-yl)acetyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



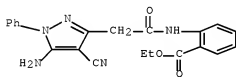
RN 257954-77-1 ZCAPLUS

CN Benzoic acid, 3-[[[(5-amino-4-cyano-1-phenyl-1H-pyrazol-3-yl)acetyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



RN 257954-82-8 ZCAPLUS

CN Benzoic acid, 2-[[[(5-amino-4-cyano-1-phenyl-1H-pyrazol-3-yl)acetyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 38 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:3379 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 132:35697

TITLE: Preparation and fungicidal activity of pyrazole derivatives

INVENTOR(S): Desbordes, Philippe; Ellwood, Charles; Perez, Joseph; Vors, Jean Pierre

PATENT ASSIGNEE(S): Rhone Poulenc Agrochimie, Fr.

SOURCE: Fr. Demande, 54 pp.

CODEN: FRXXBL

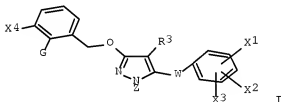
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2773155	A1	19990702	FR 1997-16835	19971229 <--
FR 2773155	B1	20000128		
WO 9933812	A1	19990708	WO 1998-FR2842	19981223 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9918819	A	19990719	AU 1999-18819	19981223 <--
ZA 9811915	A	19991105	ZA 1998-11915	19981229 <--
PRIORITY APPLN. INFO.:			FR 1997-16835	A 19971229
			WO 1998-FR2842	W 19981223

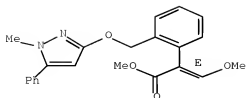
OTHER SOURCE(S): MARPAT 132:35697  
GI



- AB The title compds. I [G = R5OQ1:CMcC(:Q2)R4, R5SQ1:CMcC(:Q2)R4, R6CH:CMcC(:Q2)R4, etc.; Q1 = N, CN, Q2 = O, S; Z = H, alkyl, haloalkyl, etc.; W = bond, O, S, SO, SO2, etc.; X1, X2, X3 = H, halo, OH, NO2, etc.; X4 = H, halo, alkyl, etc.; R3 = H, halo, alkyl, haloalkyl, etc.], possessing fungicidal activity, were prepared E.g., Me (E)-2-[2-[(4-methoxycarbonyl-1-methyl-5-phenoxy-1H-pyrazol-3-yl)oxymethyl]phenyl]-3-methoxyacrylate was prepared Fungicidal activity of I was tested against *Plasmopora viticola*, *Puccinia recondita*, *Septoria tritici*, etc.
- IT 252280-47-0P 252280-48-1P 252280-49-2P  
252280-50-5P 252280-51-6P 252280-52-7P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and fungicidal activity of pyrazole derivs.)
- RN 252280-47-0 ZCAPLUS
- CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[(1-methyl-5-phenyl-1H-pyrazol-3-yl)oxy]methyl]-, methyl ester, ( $\alpha$ E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

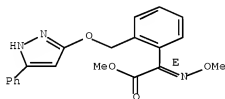




RN 252280-48-1 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxyimino)-2-[[[(5-phenyl-1H-pyrazol-3-yl)oxy]methyl]-, methyl ester, ( $\alpha$ E)- (9CI) (CA INDEX NAME)

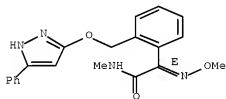
Double bond geometry as shown.



RN 252280-49-2 ZCAPLUS

CN Benzeneacetamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[[[(5-phenyl-1H-pyrazol-3-yl)oxy]methyl]-, ( $\alpha$ E)- (9CI) (CA INDEX NAME)

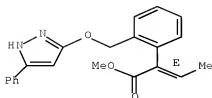
Double bond geometry as shown.



RN 252280-50-5 ZCAPLUS

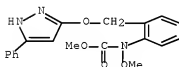
CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[(5-phenyl-1H-pyrazol-3-yl)oxy]methyl]-, methyl ester, ( $\alpha$ E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



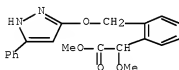
RN 252280-51-6 ZCAPLUS

CN Carbamic acid, methoxy[2-[[[(5-phenyl-1H-pyrazol-3-yl)oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 252280-52-7 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -methoxy-2-[[[(5-phenyl-1H-pyrazol-3-yl)oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 39 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:813423 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 132:20080

TITLE: Synergistic fungicidal compositions comprising a strobilurine analog and a phosphite

INVENTOR(S): Duvert, Patrice

PATENT ASSIGNEE(S): Rhone Poulenc Agro S. A., Fr.

SOURCE: Fr. Demande, 19 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

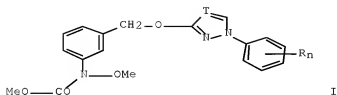
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2778314	A1	19991112	FR 1998-6052	19980507 <--
FR 2778314	B1	20020614		
PRIORITY APPLN. INFO.:			FR 1998-6052	19980507

OTHER SOURCE(S):

MARPAT 132:20080

GI



AB Synergistic fungicidal comps. comprising a strobilurine analog I [T = CH or N; R = H, halo or (halo)alkyl; n = 0, 1-5] and a phosphite, such as fosetyl-Al.

IT 251636-76-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal composition)

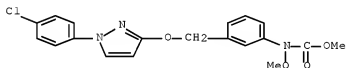
RN 251636-76-7 ZCAPLUS

CN Carbamic acid, [3-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with aluminum tris(ethyl phosphonate) (9CI) (CA INDEX NAME)

CM 1

CRN 251636-75-6

CMF C19 H18 Cl N3 O4



CM 2

CRN 39148-24-8

CMF C2 H7 O3 P . 1/3 Al



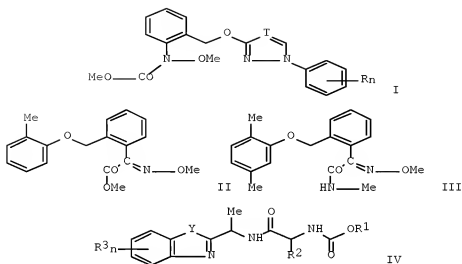
● 1/3 Al

## 10/517214

ACCESSION NUMBER: 1999:722844 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 131:318921  
 TITLE: Synergistic fungicidal mixtures  
 INVENTOR(S): Schelberger, Klaus; Scherer, Maria; Saur, Reinhold;  
 Eicken, Karl; Sauter, Hubert; Ammermann, Eberhard;  
 Grote, Thomas; Lorenz, Gisela; Strathmann, Siegfried  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: PCT Int. Appl., 23 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9956551	A1	19991111	WO 1999-EP2729	19990423 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, KG, MD, TJ, TM RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2330607	A1	19991111	CA 1999-2330607	19990423 <--
AU 9938208	A	19991123	AU 1999-38208	19990423 <--
AU 753134	B2	20021010		
BR 9910177	A	20010109	BR 1999-10177	19990423 <--
EP 1083792	A1	20010321	EP 1999-920748	19990423 <--
EP 1083792	B1	20030924		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, SI				
HU 200101996	A2	20011028	HU 2001-1996	19990423 <--
JP 2002513040	T	20020508	JP 2000-546597	19990423 <--
NZ 508515	A	20030530	NZ 1999-508515	19990423
AT 250341	T	20031015	AT 1999-920748	19990423
PT 1083792	T	20040227	PT 1999-920748	19990423
CZ 293446	B6	20040414	CZ 2000-4048	19990423
ES 2204128	T3	20040416	ES 1999-920748	19990423
SK 284634	B6	20050804	SK 2000-1642	19990423
IL 139271	A	20050831	IL 1999-139271	19990423
TW 581659	B	20040401	TW 1999-88107242	19990504
MX 2000PA10573	A	20010419	MX 2000-PA10573	20001027 <--
US 6436979	B1	20020820	US 2000-674542	20001102
PRIORITY APPLN. INFO.:			DE 1998-19819628	A 19980504
			WO 1999-EP2729	W 19990423

OTHER SOURCE(S): MARPAT 131:318921  
 GI



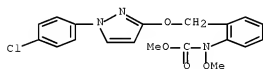
AB The title mixts. comprise a carbamate I (T = CH or N; n = 0, 1 or 2; R = halo, C1-4 alkyl or alkyl halide), the oxime ether carboxylic acid ester II or the oxime ether carboxylic acid amide III and IV [R1 = (un)substituted C1-4 alkyl, C2-4 alkenyl, C2-4 alkynyl or alkylcycloalkyl; R2 = C1-4 alkyl or alkyl halide; R3 = H, halo, C1-4 alkyl, alkoxy, alkylthio, alkylamino, alkyl halide or haloalkoxy; Y = O, S, CHR4 or NR5; R4, R5 = R2; n = 0, 1, 2 or 3].

IT 175013-18-0 175013-22-6

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(mixture containing; synergistic fungicide)

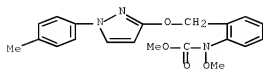
RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



RN 175013-22-6 ZCAPLUS

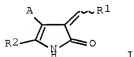
CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 41 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:640833 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 131:257438  
 TITLE: Preparation of 3-aralkylidene-2-oxopyrrole-3-carboxylates as crop protection agents.  
 INVENTOR(S): Wagner, Oliver; Otten, Martina; Westphalen, Karl-otto; Walter, Helmut; Harries, Volker  
 PATENT ASSIGNEE(S): Basf A.-G., Germany  
 SOURCE: PCT Int. Appl., 51 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9950243	A1	19991007	WO 1999-EP2006	19990324 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2325904	A1	19991007	CA 1999-2325904	19990324 <--
AU 9937020	A	19991018	AU 1999-37020	19990324 <--
EP 1066256	A1	20010110	EP 1999-919137	19990324 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, FI JP 2002509917 T 20020402 JP 2000-541148 19990324 <-- US 6548451 B1 20030415 US 2001-647010 20010124				
PRIORITY APPLN. INFO.:			DE 1998-19814040 A 19980330	
			WO 1999-EP2006 W 19990324	
OTHER SOURCE(S):			MARPAT 131:257438	
GI				



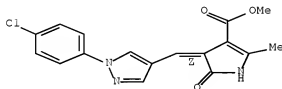
AB Use of title compds. [I; R1 = (substituted) (condensed) aryl, heteroaryl; R2 = alkyl, cycloalkyl, (substituted) aryl, heteroaryl; A = CO2R3, CONR3R4; R3, R4 = H, (substituted) alkyl, alkenyl, cycloalkyl, alkylaryl] as crop protection agents is claimed. Thus, Et 2-methyl-5-oxo-4,5-dihydropyrrole-3-carboxylate and 2-ethylbenzaldehyde were stirred with cat. HCl in EtOH to give Et E/Z-4-(2-ethylbenzylidene)-2-methyl-5-oxo-4,5-dihydropyrrole-3-carboxylate. Several I at 3 g/ha postemergent gave complete control of *Sinapis alba* and *Setaria italica*.  
 IT 244300-39-8P 244300-41-2P 244300-71-8P  
 244300-73-0P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic)

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of 3-alkylidene-2-oxopyrrole-3-carboxylates as crop  
protection agents)

RN 244300-39-8 ZCAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 4-[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]methylene]-4,5-dihydro-2-methyl-5-oxo-, methyl ester, (4Z)- (9CI) (CA INDEX NAME)

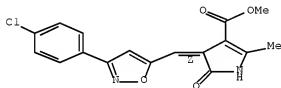
Double bond geometry as shown.



RN 244300-41-2 ZCAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 4-[[3-(4-chlorophenyl)-5-isoxazolyl]methylene]-4,5-dihydro-2-methyl-5-oxo-, methyl ester, (4Z)- (9CI) (CA INDEX NAME)

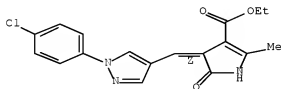
Double bond geometry as shown.



RN 244300-71-8 ZCAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 4-[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]methylene]-4,5-dihydro-2-methyl-5-oxo-, ethyl ester, (4Z)- (9CI) (CA INDEX NAME)

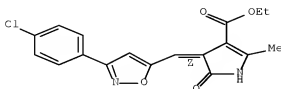
Double bond geometry as shown.



RN 244300-73-0 ZCAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 4-[[3-(4-chlorophenyl)-5-isoxazolyl]methylene]-4,5-dihydro-2-methyl-5-oxo-, ethyl ester, (4Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

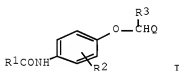


REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 42 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:620484 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 131:243076  
 TITLE: Preparation of hydroxyanilines as herbicides  
 INVENTOR(S): Sato, Kazuo; Sano, Hiroki; Komai, Hiroyuki; Kudou, Noriaki; Morimoto, Soji; Kadotani, Junji  
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11263775	A	19990928	JP 1998-252600	19980907 <---
PRIORITY APPLN. INFO.:			JP 1997-242967	A 19970908
OTHER SOURCE(S):	MARPAT	131:243076		

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AB Title compds. I (R1 = alkoxy; R2 = alkyl, cycloalkyl, alkoxy, halo; R3 = H, alkyl; Q = heterocycl, except oxazolyl, 2-benzoxazolyl, thiazolyl, 2-benzothiazolyl) and their salts, useful as herbicides, are prepared. Thus, reaction of 2-methyl-4-hydroxyaniline with 5-chloro-2-chloromethylthiophene in DMF in the presence of NaH gave 81.6% 4-(5-chlorothiophen-2-ylmethoxy)-2-methylaniline, reaction of which with Me chloroformate in CH2Cl2 in the presence of 4-dimethylaminopyridine gave 92.3% Me [4-(5-chlorothiophen-2-ylmethoxy)-2-methylphenyl]carbamate (II). II showed herbicidal activity at 20 g/are against Echinochloa crus-galli with no toxicity to rice.

IT 244175-43-7P 244175-44-8P 244175-45-9P  
 244175-46-0P 244175-52-8P 244175-57-3P  
 244175-58-4P 244175-59-5P 244175-61-9P

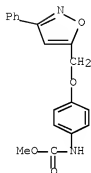


10/517214

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of hydroxyanilines as herbicides)

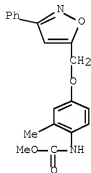
RN 244175-43-7 ZCAPLUS

CN Carbamic acid, [4-[(3-phenyl-5-isoxazolyl)methoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



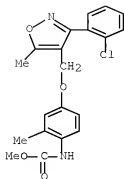
RN 244175-44-8 ZCAPLUS

CN Carbamic acid, [2-methyl-4-[(3-phenyl-5-isoxazolyl)methoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



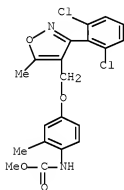
RN 244175-45-9 ZCAPLUS

CN Carbamic acid, [4-[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]methoxy]-2-methylphenyl]-, methyl ester (9CI) (CA INDEX NAME)



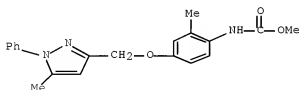
RN 244175-46-0 ZCAPLUS

CN Carbamic acid, [4-[[3-(2,6-dichlorophenyl)-5-methyl-4-isoxazolyl]methoxy]-2-methylphenyl]-, methyl ester (9CI) (CA INDEX NAME)



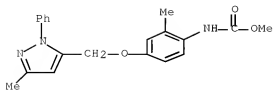
RN 244175-52-8 ZCAPLUS

CN Carbamic acid, [2-methyl-4-[(5-methyl-1-phenyl-1H-pyrazol-3-yl)methoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



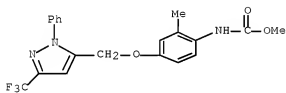
RN 244175-57-3 ZCAPLUS

CN Carbamic acid, [2-methyl-4-[(3-methyl-1-phenyl-1H-pyrazol-5-yl)methoxy]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



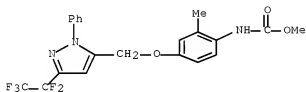
RN 244175-58-4 ZCAPLUS

CN Carbamic acid, [2-methyl-4-([1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]methoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



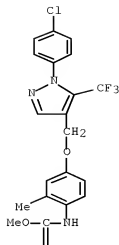
RN 244175-59-5 ZCAPLUS

CN Carbamic acid, [2-methyl-4-([3-(pentafluoroethyl)-1-phenyl-1H-pyrazol-5-yl]methoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 244175-61-9 ZCAPLUS

CN Carbamic acid, [4-([1-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]methoxy)-2-methylphenyl]-, methyl ester (9CI) (CA INDEX NAME)



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L89 ANSWER 43 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:312718 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 131:5260

TITLE: Preparation of azole ring-containing phenylcarboxylic acids as lipid formation inhibitors

INVENTOR(S): Kitaide, Makoto; Ono, Tomoyasu; Terada, Tadashi; Asao, Tetsuji; Yamamoto, Akiyoshi; Yamada, Haruo; Miyake, Hidekazu

PATENT ASSIGNEE(S): Taiho Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF

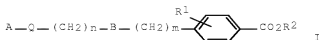
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11130753	A	19990518	JP 1997-300384	19971031 <--
JP 3694774	B2	20050914		
PRIORITY APPLN. INFO.:			JP 1997-300384	19971031
OTHER SOURCE(S):		MARPAT 131:5260		
GI				



AB The title compds. I [A = lower alkyl, (un)substituted Ph, (un)substituted pyridyl, in which the substituent is halo, lower alkyl, lower alkoxy, alkylamino; Q = imidazolyl, triazolyl, pyrazolyl, thiazolyl which may be substituted with lower alkyl, etc.; B = O, NR' (R' = H, lower alkyl); R<sup>1</sup> = H, halo, lower alkoxy; R<sup>2</sup> = H, lower alkyl; n = 1, 2; m = 0, 1] or their salts are prepared I or their salts inhibit fatty acid synthesis and cholesterol synthesis and are useful as hypolipemics. A THF solution of 1-(4-chlorophenyl)-5-methyl-4-hydroxymethylpyrazole (preparation given) was treated with SOCl<sub>2</sub> and the resulting 1-(4-chlorophenyl)-5-methyl-4-chloromethylpyrazole was treated with p-HOC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>Me to give 1-(4-chlorophenyl)-5-methyl-4-(4'-methoxycarbonylphenoxy)methylpyrazole. Similarly prepared 1-phenyl-5-methyl-4-(4'-methoxycarbonylphenoxy)methylpyrazole significantly lowered serum triglycerides and VLDL cholesterol.

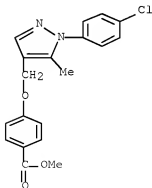
IT 225930-55-2P 225930-56-3P 225930-59-6P  
 225930-67-6P 225930-68-7P 225930-69-8P  
 225930-70-1P 225930-72-3P 225930-73-4P  
 225930-74-5P 225930-75-6P 225930-76-7P  
 225930-77-8P 225930-78-9P 225930-80-2P  
 225930-81-4P 225930-82-5P 225930-83-6P  
 225930-84-7P 225930-86-9P 225930-87-0P  
 225930-88-1P 225930-90-5P 225930-91-6P  
 225930-92-7P 225930-94-9P 225930-95-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of azole ring-containing phenylcarboxylic acids as lipid formation inhibitors)

RN 225930-55-2 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



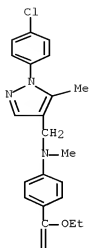
RN 225930-56-3 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-

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yl)methyl)methylamino]-, ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

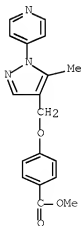


PAGE 2-A



RN 225930-59-6 ZCAPLUS

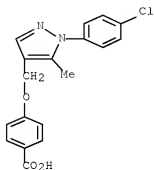
CN Benzoic acid, 4-[[5-methyl-1-(4-pyridinyl)-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 225930-67-6 ZCAPLUS

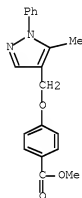
10/517214

CN Benzoic acid, 4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-  
(9CI) (CA INDEX NAME)



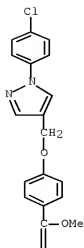
RN 225930-68-7 ZCAPLUS

CN Benzoic acid, 4-[(5-methyl-1-phenyl-1H-pyrazol-4-yl)methoxy]-, methyl  
ester (9CI) (CA INDEX NAME)



RN 225930-69-8 ZCAPLUS

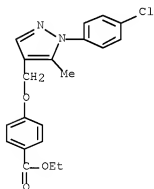
CN Benzoic acid, 4-[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]methoxy]-, methyl  
ester (9CI) (CA INDEX NAME)



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RN 225930-70-1 ZCAPLUS

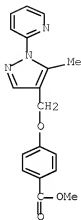
CN Benzoic acid, 4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 225930-72-3 ZCAPLUS

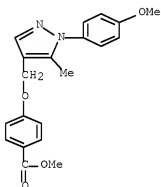
CN Benzoic acid, 4-[[5-methyl-1-(2-pyridinyl)-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)





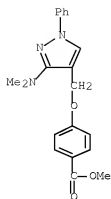
RN 225930-73-4 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-methoxyphenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



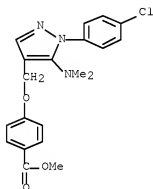
RN 225930-74-5 ZCAPLUS

CN Benzoic acid, 4-[[3-(dimethylamino)-1-phenyl-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



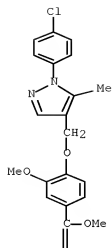
RN 225930-75-6 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-chlorophenyl)-5-(dimethylamino)-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 225930-76-7 ZCAPLUS

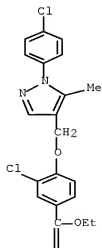
CN Benzoic acid, 4-[[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-3-methoxy]-, methyl ester (9CI) (CA INDEX NAME)



II

RN 225930-77-8 ZCAPLUS

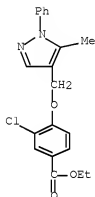
CN Benzoic acid, 3-chloro-4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-, ethyl ester (9CI) (CA INDEX NAME)



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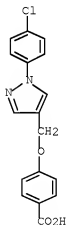
RN 225930-78-9 ZCAPLUS

CN Benzoic acid, 3-chloro-4-[(5-methyl-1-phenyl-1H-pyrazol-4-yl)methoxy]-, ethyl ester (9CI) (CA INDEX NAME)



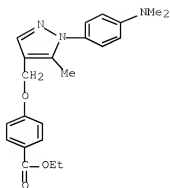
RN 225930-80-3 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]methoxy]- (9CI) (CA INDEX NAME)



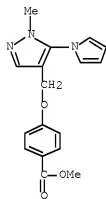
RN 225930-81-4 ZCAPLUS

CN Benzoic acid, 4-[[1-[4-(dimethylamino)phenyl]-5-methyl-1H-pyrazol-4-yl]methoxy]-, ethyl ester (9CI) (CA INDEX NAME)



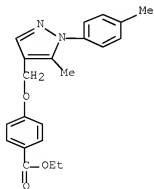
RN 225930-82-5 ZCAPLUS

CN Benzoic acid, 4-[[1-methyl-5-(1H-pyrrol-1-yl)-1H-pyrazol-4-yl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 225930-83-6 ZCAPLUS

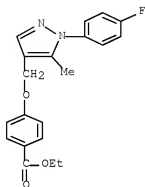
CN Benzoic acid, 4-[[5-methyl-1-(4-methylphenyl)-1H-pyrazol-4-yl]methoxy]-, ethyl ester (9CI) (CA INDEX NAME)



10/517214

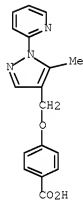
RN 225930-84-7 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-fluorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-, ethyl ester (9CI) (CA INDEX NAME)



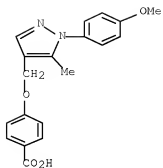
RN 225930-86-9 ZCAPLUS

CN Benzoic acid, 4-[[5-methyl-1-(2-pyridinyl)-1H-pyrazol-4-yl]methoxy]- (9CI) (CA INDEX NAME)



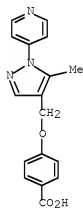
RN 225930-87-0 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-methoxyphenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]- (9CI) (CA INDEX NAME)



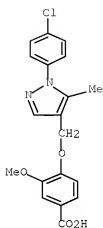
RN 225930-88-1 ZCAPLUS

CN Benzoic acid, 4-[[5-methyl-1-(4-pyridinyl)-1H-pyrazol-4-yl]methoxy]- (9CI)  
(CA INDEX NAME)



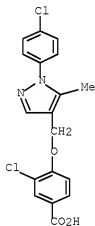
RN 225930-90-5 ZCAPLUS

CN Benzoic acid, 4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]-3-methoxy- (9CI) (CA INDEX NAME)



RN 225930-91-6 ZCAPLUS

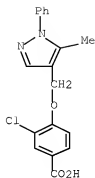
CN Benzoic acid, 3-chloro-4-[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]- (9CI) (CA INDEX NAME)



RN 225930-92-7 ZCAPLUS

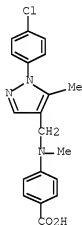
CN Benzoic acid, 3-chloro-4-[(5-methyl-1-phenyl-1H-pyrazol-4-yl)methoxy]- (9CI) (CA INDEX NAME)





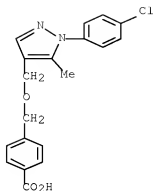
RN 225930-94-9 ZCAPLUS

CN Benzoic acid, 4-[[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methyl]methoxy]- (9CI) (CA INDEX NAME)



RN 225930-95-0 ZCAPLUS

CN Benzoic acid, 4-[[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]methoxy]methyl]- (9CI) (CA INDEX NAME)



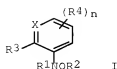
L89 ANSWER 44 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:181680 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 130:209706  
 TITLE: Preparation of N-acylated  
 pyrazolyloxymethylphenylhydroxylamines and related  
 compounds.  
 INVENTOR(S): Klintz, Ralf; Goetz, Norbert; Keil, Michael; Heilig,  
 Manfred; Wingert, Horst; Vogelbacher, Uwe Josef; Wahl,  
 Josef; Witterich, Frank  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Ger. Offen., 10 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19738864	A1	19990311	DE 1997-19738864	19970905 <--
CA 2302937	A1	19990318	CA 1998-2302937	19980821 <--
WO 9912911	A1	19990318	WO 1998-EP5332	19980821 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, KG, MD, TJ, TM RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9892643	A	19990329	AU 1998-92643	19980821 <--
EP 1012144	A1	20000628	EP 1998-945276	19980821 <--
EP 1012144	B1	20030312		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
BR 9812041	A	20000926	BR 1998-12041	19980821 <--
HU 200004063	A2	20010328	HU 2000-4063	19980821 <--
JP 2001515890	T	20010925	JP 2000-510720	19980821 <--
AT 234289	T	20030315	AT 1998-945276	19980821
CN 1117080	B	20030806	CN 1998-809444	19980821
ES 2195388	T3	20031201	ES 1998-945276	19980821
CZ 297014	B6	20060816	CZ 2000-764	19980821
US 6255489	B1	20010703	US 2000-486500	20000229 <--
PRIORITY APPLN. INFO.:				
			DE 1997-19738862	A 19970905
			DE 1997-19738864	A 19970905

OTHER SOURCE(S):

CASREACT 130:209706; MARPAT 130:209706

GI



AB Title compds. (I; R1 = alkoxy carbonyl, alkyl carbonyl, alkylaminocarbonyl, dialkylaminocarbonyl; R2 = H, alkyl; R3 = H, halo, cyano, alkyl, haloalkyl, alkoxy, alkoxy carbonyl, AB, etc.; R4 = halo, alkyl, haloalkyl, alkoxy carbonyl; X = N, CH; A = O, CH2, OCH2, CH2O2C, CH:CH, CH:NO, etc.; B = Ph, naphthyl, pyridinyl, pyrazinyl, pyrimidinyl, pyrazolyl, imidazolyl, oxazolyl, isoxazolyl, etc.; n = 0-3), were prepared by hydrogenation of the corresponding nitro compds. in a mixture of an aprotic solvent and an aliphatic amine followed by N-acylation of the resulting unisolated hydroxylamine and optional O-alkylation. Thus, 2-[N-(p-chlorophenyl)pyrazolyl-3-oxymethyl]nitrobenzene was hydrogenated over Pt/C in PhMe/PrNH2 at 5° and 100 bar H2 for 2 h; PrNH2 was distilled off to give 93.4% N-hydroxy-N-2-[N-(p-chlorophenyl)pyrazolyl-3-oxymethyl]aniline as a PhMe solution. ClCO2Me was added to a rapidly stirred emulsion of the above solution and H2O over 2 h followed by 2.5 h stirring at 35° to give 88% N-hydroxy-N-[2-[N-(p-chlorophenyl)pyrazolyl-3-oxymethyl]phenyl]carbamic acid Me ester.

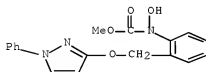
IT 320897-46-3P 220897-58-5P 220897-76-7F  
 320897-80-3P 220897-86-9P 220897-91-6P  
 320897-96-1P 220898-10-2P 220898-33-9P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of N-acylated azolyloxymethylphenylhydroxylamines and related compds.)

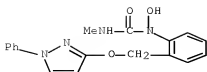
RN 220897-48-3 ZCAPLUS

CN Carbamic acid, hydroxy[2-[(1-phenyl-1H-pyrazol-3-yl)oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



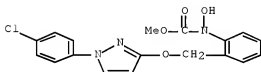
RN 220897-58-5 ZCAPLUS

CN Urea, N-hydroxy-N'-methyl-N-[2-[(1-phenyl-1H-pyrazol-3-yl)oxy]methyl]phenyl]- (9CI) (CA INDEX NAME)



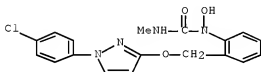
RN 220897-76-7 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]hydroxy-, methyl ester (9CI) (CA INDEX NAME)



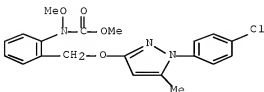
RN 220897-80-3 ZCAPLUS

CN Urea, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N'-hydroxy-N'-methyl- (9CI) (CA INDEX NAME)



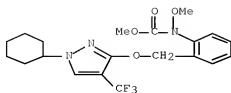
RN 220897-86-9 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



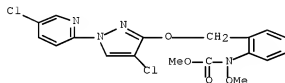
RN 220897-91-6 ZCAPLUS

CN Carbamic acid, [2-[[[1-cyclohexyl-4-(trifluoromethyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



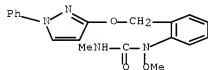
RN 220897-96-1 ZCAPLUS

CN Carbamic acid, [2-[[[4-chloro-1-(5-chloro-2-pyridinyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



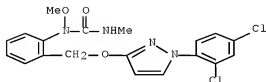
RN 220898-10-2 ZCAPLUS

CN Urea, N-[2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]- (9CI) (CA INDEX NAME)



RN 220898-33-9 ZCAPLUS

CN Urea, N-[2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-N'-methyl- (9CI) (CA INDEX NAME)



L89 ANSWER 45 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

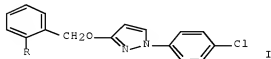
ACCESSION NUMBER: 1999:181678 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 130:222827

10/517214

TITLE: Preparation of N-aryl- and N-heterocyclyl-hydroxylamines  
 INVENTOR(S): Klintz, Ralf; Heilig, Manfred; Keil, Michael; Vogelbacher, Uwe Josef; Wahl, Josef; Wingert, Horst; Goetz, Norbert; Daun, Gregor  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Ger. Offen., 14 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19738862	A1	19990311	DE 1997-19738862	19970905 <--
CA 2302937	A1	19990318	CA 1998-2302937	19980821 <--
WO 9912911	A1	19990318	WO 1998-EP5332	19980821 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, KG, MD, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9892643	A	19990329	AU 1998-92643	19980821 <--
EP 1012144	A1	20000628	EP 1998-945276	19980821 <--
EP 1012144	B1	20030312		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
BR 9812041	A	20000926	BR 1998-12041	19980821 <--
HU 200004063	A2	20010328	HU 2000-4063	19980821 <--
JP 2001515890	T	20010925	JP 2000-510720	19980821 <--
AT 234289	T	20030315	AT 1998-945276	19980821
CN 1117080	B	20030806	CN 1998-809444	19980821
ES 2195388	T3	20031201	ES 1998-945276	19980821
CZ 297014	B6	20060816	CZ 2000-764	19980821
US 6255489	B1	20010703	US 2000-486500	20000229 <--
MX 200002189	A	20001020	MX 2000-2189	20000302 <--
PRIORITY APPLN. INFO.:				
			DE 1997-19738862	A 19970905
			DE 1997-19738864	A 19970905
			WO 1998-EP5332	W 19980821
OTHER SOURCE(S): CASREACT 130:222827; MARPAT 130:222827				
GI				



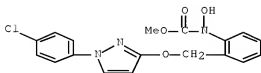
AB Aromatic and heteroarom. nitro compds. are reduced to the hydroxylamines by treatment with an amine in presence of a transition metal catalyst in inert aprotic solvent. Thus, the nitro compound I [R = NO<sub>2</sub>] was treated with H in PhMe in presence of Pt-C and PrNH<sub>2</sub> to give 93.4% I [R = NHOH] as a solution in PhMe which was treated with ClCO<sub>2</sub>Me in aqueous PhMe to give I [R = N(OH)CO<sub>2</sub>Me] in 88% overall yield.

IT 220897-76-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of N-aryl- and N-heterocyclyl-hydroxylamines)

RN 220897-76-7 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]hydroxy-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 46 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1999:7973 ZCAPLUS Full-text

DOCUMENT NUMBER: 130:52416

TITLE: Pesticidal 1-aryl-3-iminopyrazoles

INVENTOR(S): Manning, David Treadway; Wu, Tai-teh

PATENT ASSIGNEE(S): Rhone-Poulenc Agro, Fr.

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

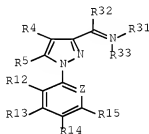
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856767	A1	19981217	WO 1998-EP1764	19980309 <--
W:	AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
ZA 9801934	A	19990906	ZA 1998-1934	19980306 <--
CA 2283465	A1	19981217	CA 1998-2283465	19980309 <--
AU 9870415	A	19981230	AU 1998-70415	19980309 <--
AU 745011	B2	20020307		
US 5965491	A	19991012	US 1998-36794	19980309 <--
BR 9808019	A	20000308	BR 1998-8019	19980309 <--
EE 9900402	A	20000417	EE 1999-402	19980309 <--
EE 4014	B1	20030415		
EP 1007513	A1	20000614	EP 1998-917082	19980309 <--
R:	AT, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
TR 9902211	T2	20000621	TR 1999-2211	19980309 <--
HU 200001923	A2	20010129	HU 2000-1923	19980309 <--
JP 2001518936	T	20011016	JP 1998-546387	19980309 <--
JP 3785433	B2	20060614		
CN 1107673	B	20030507	CN 1998-803953	19980309
AP 1158	A	20030630	AP 1999-1645	19980309
W:	GH, KE, MW, SD, UG, ZW			
CZ 296162	B6	20060111	CZ 1999-3184	19980309

10/517214

TW 486470	B	20020511	TW 1998-87103503	19980310 <--
NO 9904355	A	19991110	NO 1999-4355	19990908 <--
NO 313828	B1	20021209		
MX 9908352	A	20000228	MX 1999-8352	19990910 <--
BG 103775	A	20010531	BG 1999-103775	19991004 <--
BG 64128	B1	20040130		
HK 1025320	A1	20040116	HK 2000-104482	20000720
PRIORITY APPLN. INFO.:			US 1997-40135P	P 19970310
OTHER SOURCE(S):		MARPAT 130:52416	WO 1998-EP1764	W 19980309
GI				



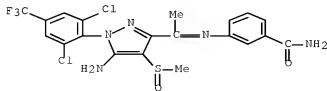
I

AB The title compds. [I; R31 = H, CN, NO2, etc.; R32 = C1-6 alkyl, C3-7 cycloalkyl, etc.; R33 = a lone pair of electrons, O, S, etc.; R4 = C1-6 alkyl, C3-6 cycloalkyl, C4-8 (cycloalkyl)alkyl, etc.; R5 = H, halo, CN, etc.; Z = N, CH, C(halo), etc.; R12-R15 = H, halo, CN, etc.], useful as pesticides, especially for controlling arthropods, or as intermediates to other pesticides, were prepared. Thus, reaction of 3-acetyl-5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-methylsulfinyl-1H-pyrazole with aniline in the presence of p-TsOH in C6H6 afforded I [R32 = Me; R31 = Ph; R33 = a lone pair of electrons; R4 = MeS(O); R5 = NH2; R12 = Cl, R13 = R15 = H; R14 = CF3; Z = C(Cl)] which showed high systemic activity on aphids and on greenbugs.

IT 217437-17-7P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (pesticidal 1-aryl-3-iminopyrazoles)

RN 217437-17-7 ZCAPLUS

CN Benzamide, 3-[[1-[5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(methylsulfinyl)-1H-pyrazol-3-yl]ethylidene]amino]- (9CI) (CA INDEX NAME)

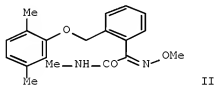
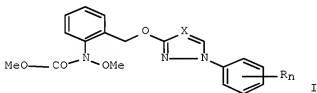


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



L89 ANSWER 47 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998:793053 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 130:34479  
 TITLE: Synergistic fungicidal mixtures  
 INVENTOR(S): Schelberger, Klaus; Scherer, Maria; Saur, Reinhold;  
 Sauter, Hubert; Muller, Bernd; Birner, Erich;  
 Leyendecker, Joachim; Ammermann, Eberhard; Lorenz,  
 Gisela; Strathmann, Siegfried  
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; et al.  
 SOURCE: PCT Int. Appl., 20 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9853693	A1	19981203	WO 1998-EP2913	19980518 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, KG, MD, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9879132	A	19981230	AU 1998-79132	19980518 <--
IN 1998MA01166	A	20050304	IN 1998-MA1166	19980529
PRIORITY APPLN. INFO.:				
			DE 1997-19722652	A 19970530
			WO 1998-EP2913	W 19980518
OTHER SOURCE(S): MARPAT 130:34479				
GI				



AB The title mixts. comprise a carbamate I (X = CH or N; n = 0, 1 or 2; R = H, halo, C1-4 alkyl or haloalkyl) or the oxime ether carboxamide II and a fungicidal copper (II) compound

IT 216559-16-6

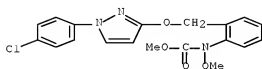
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicide)

RN 216659-76-6 ZCAPLUS  
 CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with copper hydroxide sulfate (Cu<sub>4</sub>(OH)<sub>6</sub>(SO<sub>4</sub>)) (9CI) (CA INDEX NAME)

CM 1

CRN 175013-18-0

CMF C19 H18 Cl N3 O4



CM 2

CRN 1333-22-8

CMF Cu . H O . O4 S

CCI TIS

CM 3

CRN 14808-79-8

CMF O4 S



CM 4

CRN 14280-30-9

CMF H O

OH-

CM 5

CRN 7440-50-8

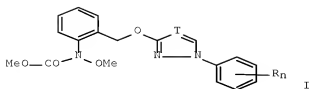
CMF Cu

Cu

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 48 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998:793051 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 130:34477  
 TITLE: Synergistic fungicidal mixtures  
 INVENTOR(S): Schelberger, Klaus; Scherer, Maria; Saur, Reinhold;  
 Sauter, Hubert; Muller, Bernd; Birner, Erich;  
 Leyendecker, Joachim; Ammermann, Eberhard; Lorenz,  
 Gisela; Strathmann, Siegfried  
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; et al.  
 SOURCE: PCT Int. Appl., 22 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9853691	A1	19981203	WO 1998-EP2877	19980515 <--
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, KG, MD, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19722225	A1	19981203	DE 1997-19722225	19970528 <--
CA 2289786	A1	19981203	CA 1998-2289786	19980515 <--
AU 9880178	A	19981230	AU 1998-80178	19980515 <--
EP 984695	A1	20000315	EP 1998-928274	19980515 <--
EP 984695	B1	20020327		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, SI, FI				
BR 9809480	A	20000620	BR 1998-9480	19980515 <--
HU 200002077	A2	20001028	HU 2000-2077	19980515 <--
JP 2001526700	T	20011218	JP 1999-500165	19980515 <--
NZ 500944	A	20020201	NZ 1998-500944	19980515 <--
AT 214876	T	20020415	AT 1998-928274	19980515 <--
TW 410142	B	20001101	TW 1998-87107672	19980518 <--
IN 1998MA01120	A	20050304	IN 1998-MA1120	19980526
ZA 9804508	A	19991129	ZA 1998-4508	19980527 <--
MX 9910160	A	20000430	MX 1999-10160	19991105 <--
US 6258801	B1	20010710	US 1999-423462	19991109 <--
PRIORITY APPLN. INFO.:			DE 1997-1972225	A 19970528
			WO 1998-EP2877	W 19980515
OTHER SOURCE(S):	MARPAT	130:34477		
GI				



AB The title mixts. contain a carbamate I (T = CH or N; n = 0, 1 or 2; R = halo, C1-4 alkyl or halo alkyl) and a phosphonate R2OPH(O)OY [Y = H, group I, II or III metal or NR3R4R5R6; R2 = H, C1-18 alkyl, haloalkyl, nitroalkyl, (un)substituted C2-8 alkenyl or alkynyl, alkoxyalkyl, alkenylalkyl, (un)substituted aryl, cycloalkyl, alkylaryl or heterocyclyl with 5 or 6 ring atoms and N, O or S heteroatoms, whereby the heterocyclic group is linked to the O directly or via an aliphatic chain; R3-R6 = C1-4-alkyl or hydroxyalkyl].

IT 216655-68-4  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicide)

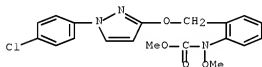
RN 216655-68-4 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with aluminum tris(ethyl phosphonate) (9CI) (CA INDEX NAME)

CM 1

CRN 175013-18-0

CMF C19 H18 Cl N3 O4



CM 2

CRN 39148-24-8

CMF C2 H7 O3 P . 1/3 Al



● 1/3 Al

REFERENCE COUNT:

6

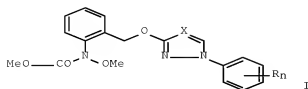
THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 49 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 1997:740080 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 128:11111  
 TITLE: Synergistic fungicide mixtures  
 INVENTOR(S): Mueller, Bernd; Sauter, Hubert; Ammermann, Eberhard;  
 Lorenz, Gisela; Strathmann, Siegfried; Scherer, Maria;  
 Schelberger, Klaus; Leyendecker, Joachim  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 20 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9740686	A1	1997/1106	WO 1997-EP2041	1997/0423 <--
W: AU, BG, BR, CA, CN, CZ, GE, HU, IL, JP, KR, LV, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2252511	A1	1997/1106	CA 1997-2252511	1997/0423 <--
AU 9727678	A	1997/1119	AU 1997-27678	1997/0423 <--
AU 732285	B2	20010412		
EP 900019	A1	19990310	EP 1997-921700	1997/0423 <--
EP 900019	B1	20010829		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, SI, FI				
CN 1216897	A	19990519	CN 1997-194127	1997/0423 <--
BR 9708807	A	19990803	BR 1997-8807	1997/0423 <--
NZ 332210	A	20000228	NZ 1997-332210	1997/0423 <--
JP 2000509057	T	20000718	JP 1997-538544	1997/0423 <--
JP 3821486	B2	20060913		
AT 204707	T	20010915	AT 1997-921700	1997/0423 <--
ES 2163761	T3	20020201	ES 1997-921700	1997/0423 <--
PT 900019	T	20020228	PT 1997-921700	1997/0423 <--
IN 1997/MA00834	A	20050304	IN 1997-MA834	1997/0423
TW 411253	B	20001111	TW 1997-86105364	1997/0424 <--
ZA 9703618	A	19990412	ZA 1997-3618	1997/0425 <--
US 6172094	B1	20010109	US 1998-171649	19981022 <--
US 6239158	B1	20010529	US 2000-702100	20001031 <--
GR 3036603	T3	20011231	GR 2001-401464	20010912 <--

PRIORITY APPLN. INFO.:  
 DE 1996-19616716 A 19960426  
 DE 1996-19617231 A 19960430  
 DE 1996-19617234 A 19960430  
 WO 1997-EP2041 W 19970423  
 US 1998-171649 A3 19981022

OTHER SOURCE(S): MARPAT 128:11111  
 GI



AB This invention concerns fungicide mixts. containing in a synergistically effective amount of a carbamate I [X = CH or N; n = 0, 1 or 2; R = halo or (halo)alkyl] and a dithiocarbamate selected from maneb, mancozeb, metiram and zineb, and/or cymoxanil.

IT 198956-59-1 198956-60-4 198956-62-6  
198956-64-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicide)

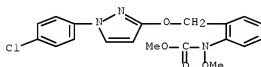
RN 198956-59-1 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (9CI) (CA INDEX NAME)

CM 1

CRN 175013-18-0

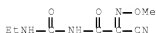
CMF C19 H18 Cl N3 O4



CM 2

CRN 57966-95-7

CMF C7 H10 N4 O3



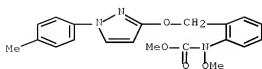
RN 198956-60-4 ZCAPLUS

CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (9CI) (CA INDEX NAME)

CM 1

CRN 175013-22-6

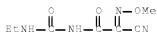
CMF C20 H21 N3 O4



CM 2

CRN 57966-95-7

CMF C7 H10 N4 O3



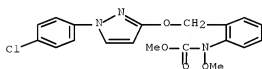
RN 198956-62-6 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester, mixt. with metiram (9CI) (CA INDEX NAME)

CM 1

CRN 175013-18-0

CMF C19 H18 Cl N3 O4



CM 2

CRN 9006-42-2

CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

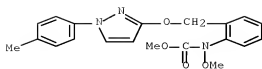
RN 198956-64-8 ZCAPLUS

CN Carbamic acid, methoxy[2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester, mixt. with metiram (9CI) (CA INDEX NAME)

CM 1

CRN 175013-22-6

CMF C20 H21 N3 O4



CM 2

CRN 9006-42-2

CMF Unspecified

CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L89 ANSWER 50 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1997:303408 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 126:273648

TITLE: Synergistic agrochemical fungicide comprising a combination of an agent inhibiting respiration in the cytochrome complex III and fenazaquin

INVENTOR(S): Bayer, Herbert; Sauter, Hubert; Ammermann, Eberhard; Lorenz, Gisela; Strathmann, Siegfried; Koehle, Harald; Retzlaff, Guenter

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9711606	A1	19970403	WO 1996-EP4013	19960912 <--
W: AU, BR, CA, CN, CZ, HU, IL, JP, KR, MX, NZ, PL, RU, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
TW 401275	B	20000811	TW 1996-85110597	19960830 <--
IN 1996MA01529	A	20050304	IN 1996-MA1529	19960902
CA 2230888	A1	19970403	CA 1996-2230888	19960912 <--
AU 9671288	A	19970417	AU 1996-71288	19960912 <--
AU 711050	B2	19991007		
EP 862366	A1	19980909	EP 1996-932515	19960912 <--
EP 862366	B1	20011121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
CN 1200651	A	19981202	CN 1996-197804	19960912 <--
HU 9900402	A2	19990528	HU 1999-402	19960912 <--
HU 9900402	A3	20000628		
BR 9610700	A	19990713	BR 1996-10700	19960912 <--
JP 11511476	T	19991005	JP 1996-513110	19960912 <--
RU 2158083	C2	20001027	RU 1998-108416	19960912 <--
IL 123631	A	20001121	IL 1996-123631	19960912 <--
AT 208998	T	20011215	AT 1996-932515	19960912 <--
ZA 9607963	A	19980320	ZA 1996-7963	19960920 <--
US 6245771	B1	20010612	US 1998-29951	19980317 <--



10/517214

US 6274586 B1 20010814 US 2000-571402 20000515 <--  
 PRIORITY APPLN. INFO.: DE 1995-19535516 A 19950925  
 WO 1996-EP4013 W 19960912  
 US 1998-29951 A3 19980317

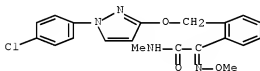
OTHER SOURCE(S): MARPAT 126,273648

AB The invention relates to means of combating parasitic fungi containing as the active agents at least one compound which prevents respiration in the cytochrome complex III and fenazaquin. The invention may be used in particular in combating Botrytis.

IT 189005-47-8E, mixts. with fenazaquin  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic agrochem. fungicides)

RN 189005-47-8 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
 $\alpha$ -(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



L89 ANSWER 51 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:275760 ZCAPLUS Full-text

DOCUMENT NUMBER: 127:5034

TITLE: An improved general method for the preparation of 4-aryl substituted bispyrazolo[3,4-b;4',3'-e]pyridines  
 AUTHOR(S): Puchala, Agnieszka; Rasala, Danuta; Kolehmainen, Erkki; Prokesova, Monika

CORPORATE SOURCE: Institute of Chemistry, Pedagogical University,  
 Kielce, PL-25-020, Pol.

SOURCE: Organic Preparations and Procedures International (1997), 29(2), 226-230

CODEN: OPPIAK; ISSN: 0030-4948

PUBLISHER: Organic Preparations and Procedures, Inc.

DOCUMENT TYPE: *Journal*

LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:5034

GI



AB The title compds. I (Ar = Ph, substituted Ph, 2-furoyl, 4-pyridyl) were prepared by reacting 5-amino-3-methyl-1-phenylpyrazole (II) with ArCHO or via reaction of Schiff bases III with II.

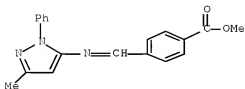
IT 186140-69-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aryl bispyrazolopyridines)

RN 186140-69-2 ZCAPLUS

CN Benzoic acid, 4-[[[(3-methyl-1-phenyl-1H-pyrazol-5-yl)imino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L89 ANSWER 52 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1997:14891 ZCAPLUS Full-text

DOCUMENT NUMBER: 126:46975

TITLE: Preparation of (hetero)aryloxyprotonates and related compounds as insecticides and fungicides.

INVENTOR(S): Grote, Thomas; Kirstgen, Reinhard; Mueller, Bernd; Sauter, Hubert; Harreus, Albrecht; Koenig, Hartmann; Ammermann, Eberhard; Lorenz, Gisela; Strathmann, Siegfried; Roehl, Franz

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: PCI Int. Appl., 219 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

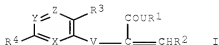
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9635669	A1	19961114	WO 1996-EP1754	19960426 <--
W: AU, BG, BR, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, SG, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2217773	A1	19961114	CA 1996-2217773	19960426 <--
AU 9656483	A	19961129	AU 1996-56483	19960426 <--
EP 824518	A1	19980225	EP 1996-913530	19960426 <--
EP 824518	B1	20010627		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
CN 1187814	A	19980715	CN 1996-194701	19960426 <--
HU 9801050	A2	19980828	HU 1998-1050	19960426 <--
BR 9608148	A	19990209	BR 1996-8148	19960426 <--
JP 11508227	T	19990721	JP 1996-533702	19960426 <--
AT 202562	T	20010715	AT 1996-913530	19960426 <--
ZA 9603620	A	19971110	ZA 1996-3620	19960508 <--
US 5985919	A	19991116	US 1997-945912	19971030 <--
PRIORITY APPLN. INFO.:			DE 1995-19516844	A 19950509
			WO 1996-EP1754	W 19960426

OTHER SOURCE(S):  
GI

MARPAT 126:46975



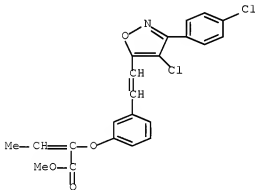
AB Title compds. (I; U = O, S, NH; V = O, S, NH, alkylimino; X, Y, Z = N, CR3; R1, R2 = alkyl; R3 = H, cyano, NO2, halo, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio haloalkylthio; R4 = organic group bound directly or via O, S, imino, carboxyl, or CONH), were prepared as insecticides and agrochem. fungicides (no data). Thus, to a solution of KOH in DMF was added 3-iodophenol and then Me 3-bromocrotonate; the mixture was stirred 1 h at room temperature to give 61% Me  $\alpha$ -(3-iodophenoxy)crotonate. The latter was refluxed with 4-chlorophenylboronic acid and Pd(Ph3)4 in H2O/dimethoxyethane to give 90% Me 2-(4-chlorobiphenyl-4-yloxy)but-2-enoate.

IT 184883-56-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of (hetero)aryloxycrotonates and related compds. as insecticides and fungicides)

RN 184883-56-5 ZCAPLUS

CN 2-Butenoic acid, 2-[3-[2-[4-chloro-3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 53 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:4342 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 126:74851

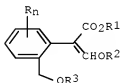
TITLE: Preparation of azolyloxybenzylalkoxyacrylates as agrochemical fungicides.

INVENTOR(S): Mueller, Bernd; Kirstgen, Reinhard; Koenig, Hartmann; Rack, Michael; Oberdorf, Klaus; Roehl, Franz; Sauter, Hubert; Lorenz, Gisela; Ammermann, Eberhard

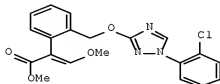
PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 34 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19519041	A1	19961128	DE 1995-19519041	19950524 <--
IL 118168	A	20010724	IL 1996-118168	19960507 <--
CA 2218897	A1	19961128	CA 1996-2218897	19960513 <--
WO 9637477	A1	19961128	WO 1996-EP2042	19960513 <--
W: AU, BG, BR, CA, CN, CZ, HU, JP, KR, MX, NO, NZ, PL, SG, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9658956	A	19961211	AU 1996-58956	19960513 <--
AU 712768	B2	19991118		
EP 830342	A1	19980325	EP 1996-916055	19960513 <--
EP 830342	B1	20021009		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
CN 1185148	A	19980617	CN 1996-194136	19960513 <--
CN 1069638	B	20010815		
BR 9608781	A	19990706	BR 1996-8781	19960513 <--
JP 11511744	T	19991012	JP 1996-535326	19960513 <--
NZ 309036	A	20000128	NZ 1996-309036	19960513 <--
EP 1110453	A1	20010627	EP 2001-107639	19960513 <--
EP 1110453	B1	20030502		
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AT 225773	T	20021015	AT 1996-916055	19960513
PT 830342	T	20030228	PT 1996-916055	19960513
AT 238660	T	20030515	AT 2001-107639	19960513
ES 2187653	T3	20030616	ES 1996-916055	19960513
ZA 9604117	A	19971124	ZA 1996-4117	19960523 <--
US 5935986	A	19990810	US 1997-952755	19971120 <--
US 6380231	B1	20020430	US 1999-287274	19990407 <--
PRIORITY APPLN. INFO.:			DE 1995-19519041	A 19950524
			EP 1996-916055	A3 19960513
			WO 1996-EP2042	W 19960513
			US 1997-952755	A3 19971120
OTHER SOURCE(S):	MARPAT 126:74851			
GI				



I

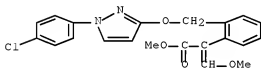


II

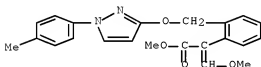
AB Title compds. [I; n = 0-4; R = NO2, cyano, halo, (substituted) alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy; adjacent R groups may form a bridge; R1, R2 = alkyl; R3 = substituted pyrazolyl, triazolyl], were prepared Thus, Me  $\alpha$ -(2-bromomethylphenyl)- $\beta$ -methoxyacrylate and 1-(o-chlorophenyl)-3-hydroxy-

1,2,4-triazole were stirred with Na<sub>2</sub>CO<sub>3</sub> in DMF to give 12% title compound (II). II at 63 ppm on wheat seedlings reduced incidence of Puccinia recondita to ≤15% vs. 65% for untreated controls.

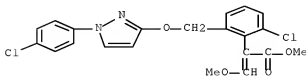
- IT 184684-07-9P 184684-08-0P 184684-09-1P  
 184684-10-4P 184684-11-5P 184684-12-6P  
 184684-13-7P 184684-15-9P 184684-22-8P  
 184684-23-9P 184684-24-0P 184684-25-1P  
 184684-26-2P 184684-27-3P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of azolyoxybenzylalkoxyacrylates as agrochem. fungicides)  
 RN 184684-07-9 ZCAPLUS  
 CN Benzeneacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



- RN 184684-08-0 ZCAPLUS  
 CN Benzenesacetic acid, α-(methoxymethylene)-2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

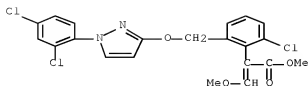


- RN 184684-09-1 ZCAPLUS  
 CN Benzeneacetic acid, 2-chloro-6-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



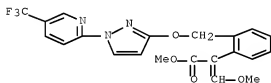
- RN 184684-10-4 ZCAPLUS  
 CN Benzenesacetic acid, 2-chloro-6-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

NAME)



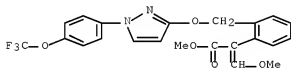
RN 184684-11-5 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



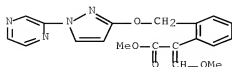
RN 184684-12-6 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-[4-(trifluoromethoxy)phenyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

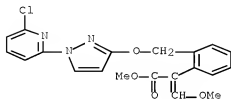


RN 184684-13-7 ZCAPLUS

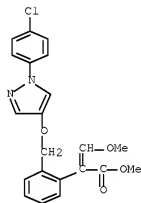
CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-pyrazinyl-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



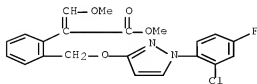
RN 184684-15-9 ZCAPLUS

CN Benzeacetic acid, 2-[[[1-(6-chloro-2-pyridinyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

RN 184684-22-8 ZCAPLUS

CN Benzeacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

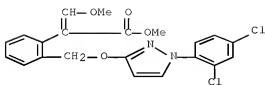
RN 184684-23-9 ZCAPLUS

CN Benzeacetic acid, 2-[[[1-(2-chloro-4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

RN 184684-24-0 ZCAPLUS

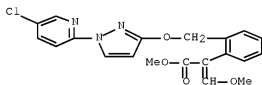
CN Benzeacetic acid, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

NAME)



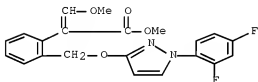
RN 184684-25-1 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(5-chloro-2-pyridinyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



RN 184684-26-2 ZCAPLUS

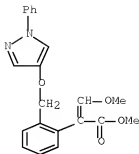
CN Benzeneacetic acid, 2-[[[1-(2,4-difluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



RN 184684-27-3 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-(phenyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)





L89 ANSWER 54 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:718922 ZCAPLUS Full-text

DOCUMENT NUMBER: 126:117690

TITLE: 1-Phenyl-3-methyl-5-N-benzylideneaminopyrazoles.  
Substituent effects and protonation sites studied by  
NMR and ab initio (6-31G\*) MO calculations  
Kolehmainen, Erkki; Puchala, Agnieszka; Suontamo,  
Reijo; Rasala, Danuta; Lysek, Robert

CORPORATE SOURCE: Dep. Chem., Univ. Jyväskylä, Jyväskylä, FIN-40351,  
Finland

SOURCE: Journal of the Chemical Society, Perkin Transactions  
2: Physical Organic Chemistry (1996), (11),  
2383-2387

CODEN: JCPKBH; ISSN: 0300-9580

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: *Journal*

LANGUAGE: English

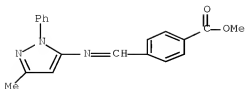
AB 1-Phenyl-3-methyl-5-N-benzylideneaminopyrazole and its derivs. 11 prepared by condensation of 1-phenyl-3-methyl-5-aminopyrazole and aromatic aldehydes have been studied by multinuclear (1H, 13C, 14/15N and 17O) magnetic resonance spectroscopy. The 13C NMR chemical shifts and the direct spin-spin coupling consts. 1J(C,H) of the azomethine carbon of these Schiff bases (SB) correlate significantly with the Hammett substituent consts.,  $\sigma_p$ , of the para-substituents in the aryl ring bound to the azomethine carbon. The assignments of the 15N NMR chems. shifts of SBs in CDCl3 were based on 2J(N,H)s observed for the azomethine nitrogen as well as 1H, 15N HMBC expts. Based on the present 1H, 13C and 15N NMR data these SBs can be transformed to single and double protonated forms in trifluoroacetic acid (TFA). The protonation sites (the first one at the unsubstituted nitrogen of the pyrazole ring and the second one at the azomethine nitrogen) deduced from the NMR data are supported by ab initio MO calcs. at HF/6-31G\* level with a full geometry optimization performed for a model compound, 1,3-dimethyl-5-N-benzylideneaminopyrazole.

IT 186140-69-2P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(multinuclear magnetic resonance of Schiff bases)

RN 186140-69-2 ZCAPLUS

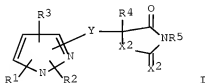
CN Benzoic acid, 4-[[[(3-methyl-1-phenyl-1H-pyrazol-5-yl)imino]methyl]-,  
methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 55 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:457757 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 125:114606  
 TITLE: Preparation of (pyrazolylmethyl)thiazolidines useful as hypoglycemic agents and aldose-reductase inhibitors  
 INVENTOR(S): Ohara, Yoshio; Suzuki, Mikio; Miyachi, Nobuhide; Kato, Katsuhiro; Ohdoi, Keisuke; Kobayashi, Tetsuya; Shikada, Ken-ichi; Naito, Takeshi; Yotsumoto, Takashi  
 PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 209 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9611196	A1	19960418	WO 1995-JP2041	19951005 <--
W: AU, CA, CN, CZ, FI, HU, KR, LT, MX, NO, NZ, RO, RU, SI, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 08157473	A	19960618	JP 1995-246171	19950925 <--
AU 9536190	A	19960502	AU 1995-36190	19951005 <--
ZA 9508395	A	19960514	ZA 1995-8395	19951005 <--
PRIORITY APPLN. INFO.:			JP 1994-242865	A 19941006
			JP 1995-246171	A 19950925
			WO 1995-JP2041	W 19951005

OTHER SOURCE(S): MARPAT 125:114606  
 GI



AB The title compds [I; X1 = S, O; X2 = S, O, NH; Y = C(R6)R7; R6, R7 = H, alkyl, cycloalkyl; R1 = alkyl, alkoxy, etc.; R2, R3 = H, alkyl, etc.; R4 = H, alkyl, etc.; R5 = H, CO2Me], useful as antidiabetic agents and aldose-reductase inhibitors for the treatment of diabetes mellitus and its complications, are prepared and I-containing formulations presented. Thus, 5-[[5-(2-hydroxy-2-phenylethoxy)-1-methyl-3-pyrazolyl]methylidene]thiazolidine-2,4-dione,

prepared in a multiple-step procedure from Et -5-hydroxy-1-methyl-3-pyrazolecarboxylate, demonstrated a 42.3% anti-glycation effect as determined by the Lowry method at 0.24 mM.

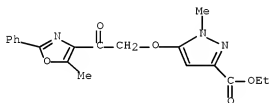
IT 179099-21-3P 179099-22-0P 179099-26-4P  
179099-29-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (pyrazolylmethyl)thiazolidines useful as hypoglycemic agents and aldose-reductase inhibitors)

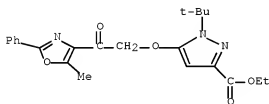
RN 179099-21-9 ZCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 1-methyl-5-[2-(5-methyl-2-phenyl-4-oxazolyl)-2-oxoethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



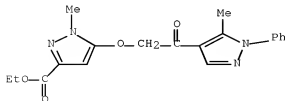
RN 179099-22-0 ZCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 1-(1,1-dimethylethyl)-5-[2-(5-methyl-2-phenyl-4-oxazolyl)-2-oxoethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

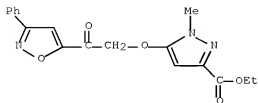


RN 179099-26-4 ZCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 1-methyl-5-[2-(5-methyl-1-phenyl-1H-pyrazol-4-yl)-2-oxoethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

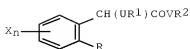


RN 179099-29-7 ZCAPLUS  
 CN 1H-Pyrazole-3-carboxylic acid, 1-methyl-5-[2-oxo-2-(3-phenyl-5-isoxazolyl)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)

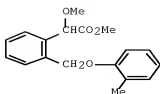


L89 ANSWER 56 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:410459 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 125:86315  
 TITLE: Preparation of alkyl phenylacetate pesticides and agrochemical fungicides  
 INVENTOR(S): Oberdorf, Klaus; Sauter, Hubert; Koenig, Hartmann; Harreus, Albrecht; Mueller, Bernd; Kirstgen, Reinhard; Grammenos, Wassilios; Bayer, Herbert; Roehl, Franz; et al.  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: PCT Int. Appl., 561 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9607633	A1	19960314	WO 1995-EP3405	19950830 <--
W: AU, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, MX, NO, NZ, PL, RU, SG, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2199422	A1	19960314	CA 1995-2199422	19950830 <--
AU 9533878	A	19960327	AU 1995-33878	19950830 <--
EP 781266	A1	19970702	EP 1995-930531	19950830 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
CN 1161687	A	19971008	CN 1995-195827	19950830 <--
BR 9509004	A	19980602	BR 1995-9004	19950830 <--
JP 10505596	T	19980602	JP 1995-509172	19950830 <--
ZA 9507545	A	19970310	ZA 1995-7545	19950908 <--
PRIORITY APPLN. INFO.:		DE 1994-4432336		A 19940910
		WO 1995-EP3405		W 19950830
OTHER SOURCE(S):		MARPAT 125:86315		
GI				



I



II

AB The title compds. [I; R = halogen, hydroxy, mercapto, amino, carboxyl, carbonylamino, etc.; R1 = CHO, alkylcarbonyl, alkyl; R2 = alkyl; U = O, S, NH, NHO; V = O, S, NH; X = CN, NO2, halogen, (halo)alkyl, (halo)alkoxy, alkylthio, etc.; n = 0-3], useful as agrochem. fungicides and pesticides, are prepared Thus, Me  $\alpha$ -[2-(2-methylphenoxy)methylene]phenyl]- $\alpha$ - ketoacetate was reacted with NaBH4 and HCl, , and the intermediate treated with NaH and MeI, producing pesticidal phenylacetate ester II.

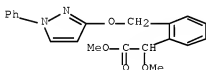
IT 178428-10-9P 178428-11-0P 178428-12-1P  
178428-13-2P 178428-19-8P 178428-20-1P  
178428-65-4P 178428-66-5P 178428-71-2P  
178428-72-3P 178428-87-0P 178428-94-9P  
178428-95-0P 178428-96-1P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of alkyl phenylacetate pesticides and agrochem. fungicides)

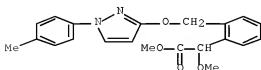
RN 178428-10-9 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -methoxy-2-[[1-(phenyl-1H-pyrazol-3-yl)oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



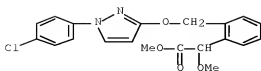
RN 178428-11-0 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -methoxy-2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



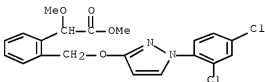
RN 178428-12-1 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -methoxy-, methyl ester (9CI) (CA INDEX NAME)



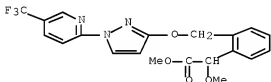
RN 178428-13-2 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-methoxy-, methyl ester (9CI) (CA INDEX NAME)



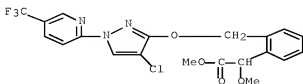
RN 178428-19-8 ZCAPLUS

CN Benzeneacetic acid, α-methoxy-2-[[[1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



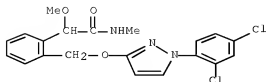
RN 178428-20-1 ZCAPLUS

CN Benzeneacetic acid, 2-[[[4-chloro-1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]-α-methoxy-, methyl ester (9CI) (CA INDEX NAME)



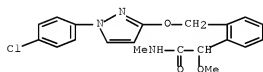
RN 178428-65-4 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
 $\alpha$ -methoxy-N-methyl- (9CI) (CA INDEX NAME)



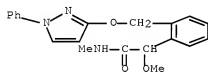
RN 178428-66-5 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-  
 $\alpha$ -methoxy-N-methyl- (9CI) (CA INDEX NAME)



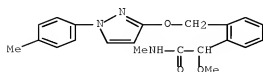
RN 178428-71-2 ZCAPLUS

CN Benzeneacetamide,  $\alpha$ -methoxy-N-methyl-2-[[[1-(phenyl)-1H-pyrazol-3-yl]oxy]methyl]- (9CI) (CA INDEX NAME)



RN 178428-72-3 ZCAPLUS

CN Benzeneacetamide,  $\alpha$ -methoxy-N-methyl-2-[[[1-(4-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]- (9CI) (CA INDEX NAME)

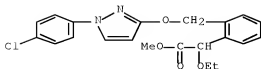


RN 178428-87-0 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-

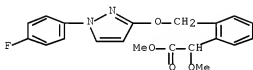
10/517214

$\alpha$ -ethoxy-, methyl ester (9CI) (CA INDEX NAME)



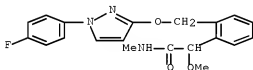
RN 178428-94-9 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -methoxy-, methyl ester (9CI) (CA INDEX NAME)



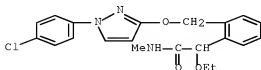
RN 178428-95-0 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -methoxy-N-methyl- (9CI) (CA INDEX NAME)



RN 178428-96-1 ZCAPLUS

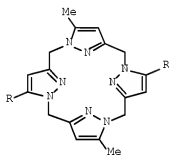
CN Benzeneacetamide, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethoxy-N-methyl- (9CI) (CA INDEX NAME)



L89 ANSWER 57 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:399852 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 125:184056



TITLE: Synthesis and complexation of macrocycles containing two pyrazolone sub-units  
 AUTHOR(S): Marzin, C.; Naji, M.; Coquelet, C.; Tarrago, G.  
 CORPORATE SOURCE: Equipe Chimie Supramoléculaire, LMPM, UMR 5635, Université Montpellier II, Montpellier, 34095, Fr.  
 SOURCE: Inorganica Chimica Acta (1996), 246(1-2), 217-227  
 CODEN: ICHAA3; ISSN: 0020-1693  
 PUBLISHER: Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



I

AB The synthesis and characterization of several Ru(II) complexes with acyclic and macrocyclic ligands containing tautomerizable OH and fixed OCH3 5-pyrazolone heterocycles are described. From dipyrazolylmethane bidentate ligands L, RuL(bpy)2(PF6)2 and Ru(L-H+)(bpy)2PF6 complexes were obtained. From the macrocycle with two CH3 and two OCH3 pyrazole sub-units (I; R = OMe), Ru(I)XY(PF6)2 (X, Y = DMSO, MeCN, Py, pyrazole, 3,5-dimethylpyrazole) were prepared. They show a behavior close to that of the analogous tetrapyrazole complexes but with slightly different complexing ability. In the case of I (R = OH), coordination with Ru(DMSO)4Cl2 leads to unstable complexes.

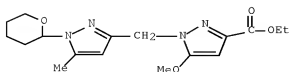
IT 180518-76-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(for preparation of pyrazole derivs. or pyrazole-based macrocycles and their ruthenium complexes)

RN 180518-76-7 ZCAPLUS

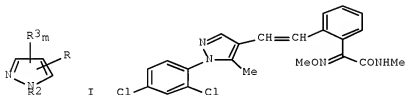
CN 1H-Pyrazole-3-carboxylic acid, 5-methoxy-1-[[5-methyl-1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-3-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 58 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:231375 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 124:261031  
 TITLE: Preparation of [2-(pyrazolylvinyl)phenyl]methoximino-N-methylacetamides as pesticides  
 INVENTOR(S): Kirstgen, Reinhard; Koenig, Hartmann; Sauter, Hubert; Harries, Volker; Lorenz, Giesela; Ammermann, Eberhard  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 26 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 691332	A1	19960110	EP 1995-109981	19950627 <--
EP 691332	B1	19990908		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
AT 184276	T	19990915	AT 1995-109981	19950627 <--
ES 2137411	T3	19991216	ES 1995-109981	19950627 <--
CA 2152996	A1	19960107	CA 1995-2152996	19950629 <--
JP 08053420	A	19960227	JP 1995-163848	19950629 <--
AU 9524828	A	19960118	AU 1995-24828	19950704 <--
AU 684640	B2	19971218		
US 5506254	A	19960409	US 1995-498759	19950706 <--
CN 1122330	A	19960515	CN 1995-108316	19950706 <--
PRIORITY APPLN. INFO.:			DE 1994-4423615	A 19940706
OTHER SOURCE(S):			MARPAT 124:261031	

GI



- AB Title compds. [I; R = CR4:CH2C:(NOMe)CONHMe; R2 = H, alkyl, heterocyclyl, (hetero)aryl, etc.; R3 = cyano, (halo)alkyl, alkoxy, etc.; R4 = H, cyano, halo, (halo)alkyl; Z = (un)substituted 1,2-phenylene; m = 0-2] were prepared Thus, 2-[(MeO)2P(O)CH2]C6H4C:(NOMe)CONHMe (preparation given) was condensed with 1-(2,4-dichlorophenyl)-4-formyl-5-methylpyrazole to give title compound (E,E)-II which gave ≥85% control of *Paricularia oryzae* on rice seedlings at 250ppm.
- IT 175424-53-OP 175424-54-1P 175424-55-2P  
 175424-56-3P 175424-57-4P 175424-58-5P  
 175424-60-9P 175424-61-0P 175424-62-1P  
 175424-63-2P 175424-64-3P 175424-65-4P  
 175424-66-5P 175424-67-6P 175424-68-7P

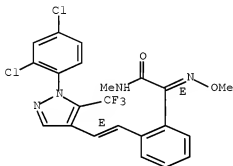
175424-69-8P 175424-70-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of [2-(pyrazolylvinyl)phenyl]methoxyimino-N-methylacetamides as pesticides)

RN 175424-53-0 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(2,4-dichlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

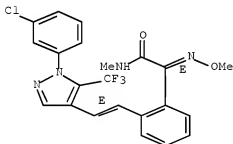
Double bond geometry as shown.



RN 175424-54-1 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(3-chlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

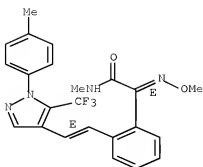
Double bond geometry as shown.



RN 175424-55-2 ZCAPLUS

CN Benzeneacetamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[2-[1-(4-methylphenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]-, (E,E)- (9CI) (CA INDEX NAME)

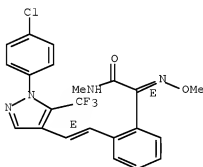
Double bond geometry as shown.



RN 175424-56-3 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(4-chlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]-α-(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

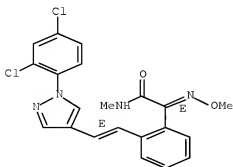
Double bond geometry as shown.



RN 175424-57-4 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(2,4-dichlorophenyl)-1H-pyrazol-4-yl]ethenyl]-α-(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

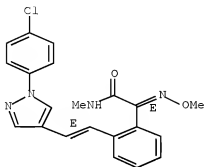
Double bond geometry as shown.



RN 175424-58-5 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(4-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]-  
 $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

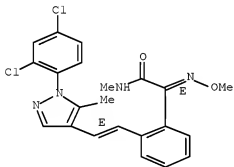
Double bond geometry as shown.



RN 175424-60-9 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(2,4-dichlorophenyl)-5-methyl-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

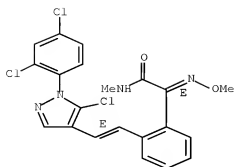
Double bond geometry as shown.



RN 175424-61-0 ZCAPLUS

CN Benzeneacetamide, 2-[2-[5-chloro-1-(2,4-dichlorophenyl)-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

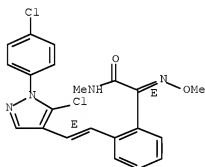
Double bond geometry as shown.



RN 175424-62-1 ZCAPLUS

CN Benzeneacetamide, 2-[2-[5-chloro-1-(4-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]-α-(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

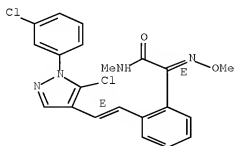
Double bond geometry as shown.



RN 175424-63-2 ZCAPLUS

CN Benzeneacetamide, 2-[2-[5-chloro-1-(3-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]-α-(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

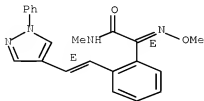
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RN 175424-64-3 ZCAPLUS

CN Benzeneacetamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[2-(1-phenyl-1H-pyrazol-4-yl)ethenyl]-, (E,E)- (9CI) (CA INDEX NAME)

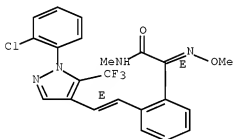
Double bond geometry as shown.



RN 175424-65-4 ZCAPLUS

CN Benzeneacetamide, 2-[2-[1-(2-chlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

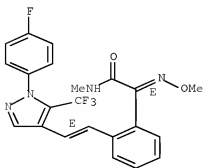
Double bond geometry as shown.



RN 175424-66-5 ZCAPLUS

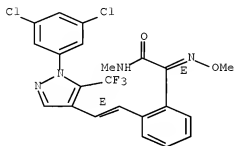
CN Benzeneacetamide, 2-[2-[1-(4-fluorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



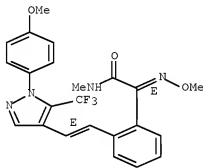
RN 175424-67-6 ZCAPLUS  
 CN Benzeneacetamide, 2-[2-[1-(3,5-dichlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 175424-68-7 ZCAPLUS  
 CN Benzeneacetamide,  $\alpha$ -(methoxyimino)-2-[2-[1-(4-methoxyphenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

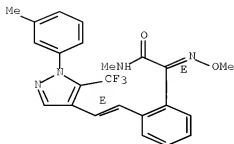
Double bond geometry as shown.



RN 175424-69-8 ZCAPLUS  
 CN Benzeneacetamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[2-[1-(3-methylphenyl)-5-(trifluoromethyl)-1H-pyrazol-4-yl]ethenyl]-, (E,E)- (9CI) (CA INDEX NAME)

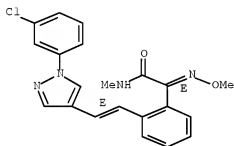
Double bond geometry as shown.





RN 175424-70-1 ZCAPLUS  
 CN Benzeneacetamide, 2-[2-[1-(3-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]-  
 $\alpha$ -(methoxyimino)-N-methyl-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 59 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:205034 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 124:261025

TITLE: Preparation of N-methoxy-N-  
 [(pyrazolyloxymethyl)phenyl]carbamates and analogs as  
 agrochemical fungicides and pesticides

INVENTOR(S): Mueller, Bernd; Koenig, Hartmann; Kirstgen, Reinhard;  
 Oberdorf, Klaus; Roehl, Franz; Goetz, Norbert; Sauter,  
 Hubert; Lorenz, Gisela; Ammermann, Eberhard

PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Ger. Offen., 47 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4423612	A1	19960111	DE 1994-4423612	19940706 <--
CA 2194503	A1	19960118	CA 1995-2194503	19950621 <--
CA 2194503	C	20070424		
WO 9601256	A1	19960118	WO 1995-EP2396	19950621 <--

W: AU, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, MX, NO, NZ, PL,  
RU, SG, SK, UA, US

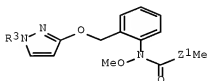
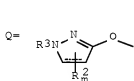
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
 AU 9529222 A 19960125 AU 1995-29222 19950621 <--  
 AU 685299 B2 19980115  
 CN 1154692 A 19970716 CN 1995-194436 19950621 <--  
 CN 1068313 B 20010711  
 BR 9508242 A 19970930 BR 1995-8242 19950621 <--  
 EP 804421 A1 19971105 EP 1995-924888 19950621 <--  
 EP 804421 B1 19980916  
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 JP 10504810 T 19980512 JP 1996-503648 19950621 <--  
 JP 3838659 B2 20061025  
 HU 77510 A2 19980528 HU 1997-29 19950621 <--  
 HU 218298 B 20000728  
 AT 171165 T 19981015 AT 1995-924888 19950621 <--  
 ES 2123264 T3 19990101 ES 1995-924888 19950621 <--  
 RU 2151142 C1 20000620 RU 1997-102108 19950621 <--  
 PL 180298 B1 20010131 PL 1995-318100 19950621 <--  
 SK 282426 B6 20020107 SK 1997-17 19950621 <--  
 PL 186501 B1 20040130 PL 1995-340891 19950621  
 CZ 294484 B6 20050112 CZ 1997-37 19950621  
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 FI 9700067 A 19970305 FI 1997-67 19970107 <--  
 FI 117199 B1 20060731  
 BG 63081 B1 20010330 BG 1997-101198 19970204 <--  
 US 6054592 A 20000425 US 1998-131640 19980810 <--  
 CN 1308065 A 20010815 CN 2000-129025 20000927 <--  
 DE 1994-4423612 A 19940706  
 WO 1995-EP2396 W 19950621

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

CASREACT 124:261025; MARPAT 124:261025

GI



II

AB RCH2ZN(OR4)COZ1R5 [R = pyrazolyloxy group Q; R2 = halo, alkyl, alkoxy, etc.; R3 = alk(en)yl, heterocyclyl, (hetero)aryl, etc.; R4 = H, alkyl, alkanoyl, alkoxy, carbonyl, etc.; R5 = H, (cyclo)alk(en)yl, alkynyl; Z = (un)substituted 1,2-phenylene; Z1 = bond, O, (alkyl)imino, etc.; m = 0-2] were prepared. Thus, 2-MeC6H4NHOH was amidated by ClCO2Ph and the product converted in 2 steps to give 2-(BrCH2)C6H4N(OMe)CO2Ph which was condensed with N-(2-pyrazinyl)-3-hydroxypyrazole to give, after NHMe amidation, title compound II (R3 = 2-pyrazinyl, Z1 = NH). II (R3 = 4-ClC6H4, Z1 = O) gave ≥95% control of Puccinia recondita on wheat seedlings at 63ppm.

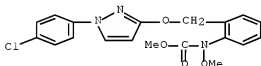
IT 175013-18-OP 175013-19-1P 175013-20-4P

175013-21-5P 175013-22-6P 175013-23-7P  
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 175013-37-3P 175013-38-4P 175013-39-5P  
 175013-40-8P 175013-42-0P 175013-43-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of N-methoxy-N-[(pyrazolyloxymethyl)phenyl]carbamates and analogs as agrochem. fungicides and pesticides)

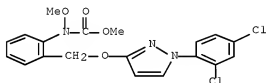
RN 175013-18-0 ZCAPLUS

CN Carbamic acid, N-[2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-N-methoxy-, methyl ester (CA INDEX NAME)



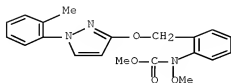
RN 175013-19-1 ZCAPLUS

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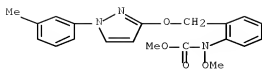
RN 175013-20-4 ZCAPLUS

CN Carbamic acid, methoxy[2-[[[1-(2-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



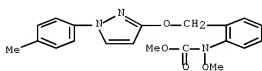
RN 175013-21-5 ZCAPLUS

CN Carbamic acid, methoxy[2-[[[1-(3-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



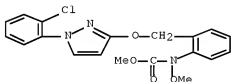
RN 175013-22-6 ZCAPLUS

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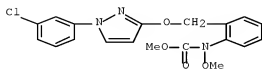
RN 175013-23-7 ZCAPLUS

CN Carbamic acid, [2-[[[1-(2-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



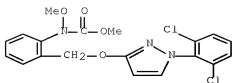
RN 175013-24-8 ZCAPLUS

CN Carbamic acid, [2-[[[1-(3-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



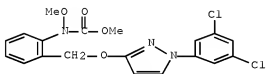
RN 175013-25-9 ZCAPLUS

CN Carbamic acid, [2-[[[1-(2,6-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



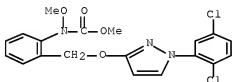
RN 175013-26-0 ZCAPLUS

CN Carbamic acid, [2-[[[1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



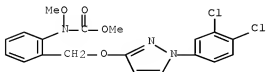
RN 175013-27-1 ZCAPLUS

CN Carbamic acid, [2-[[[1-(2,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



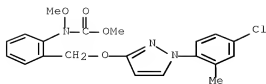
RN 175013-28-2 ZCAPLUS

CN Carbamic acid, [2-[[[1-(3,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



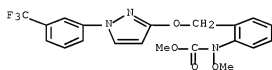
RN 175013-29-3 ZCAPLUS

CN Carbamic acid, [2-[[[1-(4-chloro-2-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



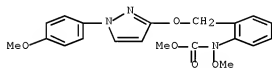
RN 175013-30-6 ZCAPLUS

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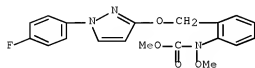
RN 175013-31-7 ZCAPLUS

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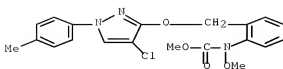
RN 175013-33-9 ZCAPLUS

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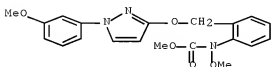
RN 175013-34-0 ZCAPLUS

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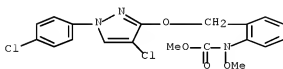
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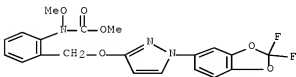
RN 175013-36-2 ZCAPLUS

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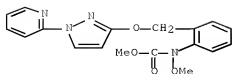
RN 175013-37-3 ZCAPLUS

CN Carbamic acid, [2-[[[1-(2,2-difluoro-1,3-benzodioxol-5-yl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester (9CI) (CA INDEX NAME)



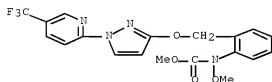
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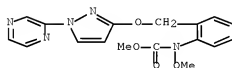
RN 175013-39-5 ZCAPLUS

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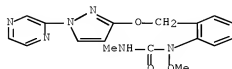
RN 175013-40-8 ZCAPLUS

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RN 175013-42-0 ZCAPLUS

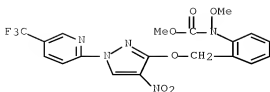
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RN 175013-43-1 ZCAPLUS

CN Carbamic acid, methoxy[2-[[[4-nitro-1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)





L89 ANSWER 60 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:144848 ZCAPLUS Full-text

DOCUMENT NUMBER: 124:202243

TITLE: Preparation of methyl [alpha-(pyrazol-3-yl)oxymethylene]phenylbutenoate agrochemical fungicides and pesticides

INVENTOR(S): Oberdorf, Klaus; Koenig, Hartmann; Mueller, Bernd; Kirstgen, Reinhard; Grammenos, Wassilios; Sauter, Hubert; Lorenz, Gisela; Ammermann, Eberhard; Harries, Volker

PATENT ASSIGNEE(S): Germany

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: *Patent*

LANGUAGE: English

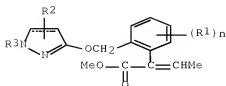
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9529896	A1	19951109	WO 1995-EP1554	19950425 <--
W: AU, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, MX, NO, NZ, PL, RU, SG, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
IL 113414	A	20000813	IL 1995-113414	19950418 <--
CA 2189368	A1	19951109	CA 1995-2189368	19950425 <--
AU 9524481	A	19951129	AU 1995-24481	19950425 <--
AU 682963	B2	19971023		
EP 758322	A1	19970219	EP 1995-918603	19950425 <--
EP 758322	B1	20010905		
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CN 1150800	A	19970528	CN 1995-193600	19950425 <--
CN 1066137	B	20010523		
BR 9507602	A	19971007	BR 1995-7602	19950425 <--
JP 09512541	T	19971216	JP 1995-527980	19950425 <--
AT 205194	T	20010915	AT 1995-918603	19950425 <--
US 5707936	A	19980113	US 1996-732300	19961031 <--
PRIORITY APPLN. INFO.:			DE 1994-4415483	A 19940503
			WO 1995-EP1554	W 19950425

OTHER SOURCE(S): MARPAT 124:202243

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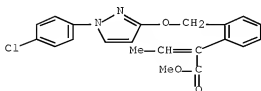
AB The title compds. [I; n = 0-4; R1 = nitro, cyano, halogen, alkyl, haloalkyl, alkoxy; R2 = H, nitro, cyano, halogen, alkyl, haloalkyl, alkoxy, alkylthio, alkoxycarbonyl; R3 = (un)substituted alkyl, alkenyl, alkynyl; the dotted line represents an optional double bond], useful as agrochem. fungicides and pesticides, are prepared Thus, N-phenylpyrazolidin-3-one was condensed with Me  $\alpha$ -(2-bromomethylphenyl)-2-butenate, producing Me  $\alpha$ -[2-(1-phenyl-4,5-dihydropyrazol-3-yl)oxymethyl]phenyl]-2-butenate, m.p. 90-92°, which demonstrated agrochem. fungicidal activity against Plasmopara viticola.

IT 174182-90-2P 174182-94-6P 174182-95-7P  
 174182-96-8P 174182-97-9P 174182-98-0P  
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 174183-40-5P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of Me [alpha-(pyrazol-3-yl)oxymethylene]phenylbutenoate agrochem. fungicides and pesticides)

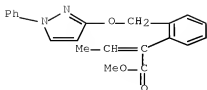
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CN Benzeneacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



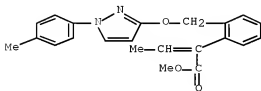
RN 174182-94-6 ZCAPLUS

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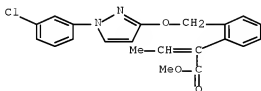
RN 174182-95-7 ZCAPLUS

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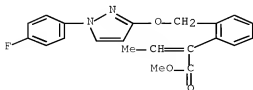
RN 174182-96-8 ZCAPLUS

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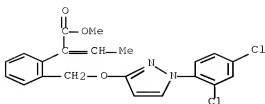
RN 174182-97-9 ZCAPLUS

CN Benzeneacetic acid, α-ethylidene-2-[[[1-(4-fluorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



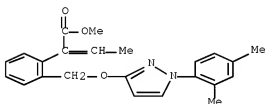
RN 174182-98-0 ZCAPLUS

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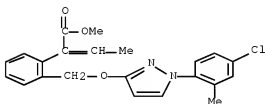
RN 174182-99-1 ZCAPLUS

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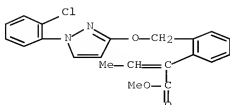
RN 174183-00-7 ZCAPLUS

CN Benzenecetic acid, 2-[[[1-(4-chloro-2-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)

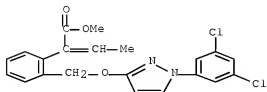


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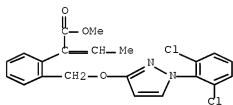
CN Benzenecetic acid, 2-[[[1-(2-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)



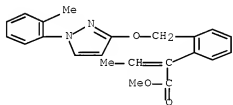
RN 174183-02-9 ZCAPLUS

CN Benzenecetic acid, 2-[[[1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)

RN 174183-03-0 ZCAPLUS

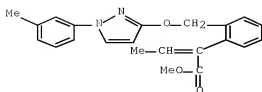
CN Benzenecetic acid, 2-[[[1-(2,6-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)

RN 174183-04-1 ZCAPLUS

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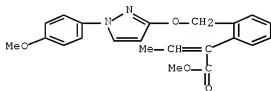
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CN Benzenecetic acid,  $\alpha$ -ethylidene-2-[[[1-(3-methylphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



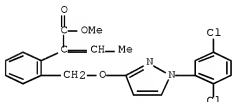
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CN Benzeneacetic acid, α-ethylidene-2-[[[1-(4-methoxyphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



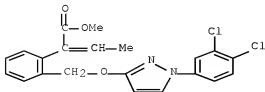
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CN Benzeneacetic acid, 2-[[[1-(2,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)



RN 174183-08-5 ZCAPLUS

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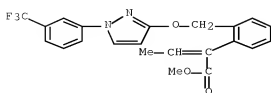


RN 174183-09-6 ZCAPLUS

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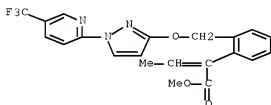
10/517214

1H-pyrazol-3-yl]oxy)methyl]-, methyl ester (9CI) (CA INDEX NAME)



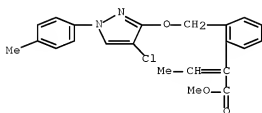
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CN Benzenecetic acid,  $\alpha$ -ethylidene-2-[[[1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy)methyl]-, methyl ester (9CI) (CA INDEX NAME)



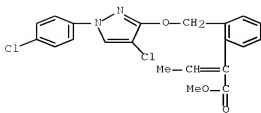
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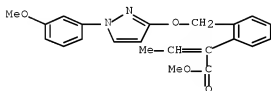
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CN Benzenecetic acid, 2-[[[4-chloro-1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy)methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



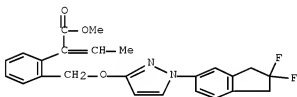
RN 174183-13-2 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[1-(3-methoxyphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 174183-14-3 ZCAPLUS

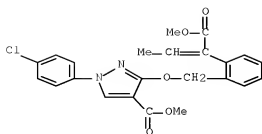
CN Benzeneacetic acid, 2-[[[1-(2,2-difluoro-2,3-dihydro-1H-inden-5-yl)-1H-pyrazol-3-yl]oxy)methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



RN 174183-15-4 ZCAPLUS

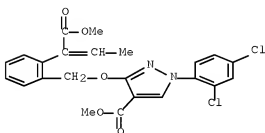
CN 1H-Pyrazole-4-carboxylic acid, 1-(4-chlorophenyl)-3-[[2-[1-(methoxycarbonyl)-1-propenyl]phenyl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)





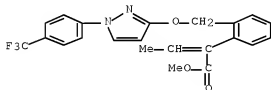
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CN 1H-Pyrazole-4-carboxylic acid, 1-(2,4-dichlorophenyl)-3-[[2-[1-(methoxycarbonyl)-1-propenyl]phenyl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)



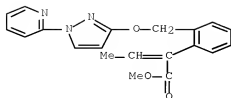
RN 174183-17-6 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[1-[4-(trifluoromethyl)phenyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



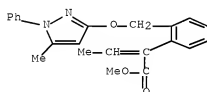
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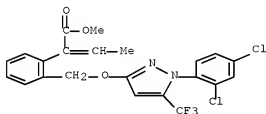
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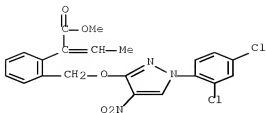
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CN Benzeneacetic acid, 2-[[[1-(2,4-dichlorophenyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



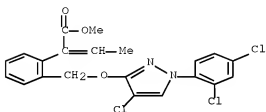
RN 174183-21-2 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2,4-dichlorophenyl)-4-nitro-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



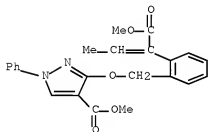
RN 174183-22-3 ZCAPLUS

CN Benzeneacetic acid, 2-[[[4-chloro-1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)



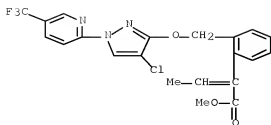
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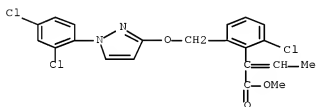
RN 174183-24-5 ZCAPLUS

CN Benzeneacetic acid, 2-[[[4-chloro-1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)



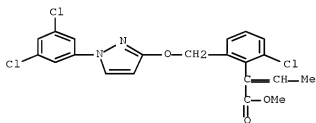
RN 174183-25-6 ZCAPLUS

CN Benzeneacetic acid, 2-chloro-6-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)



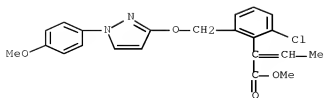
RN 174183-26-7 ZCAPLUS

CN Benzeneacetic acid, 2-chloro-6-[[[1-(3,5-dichlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]-α-ethylidene-, methyl ester (9CI) (CA INDEX NAME)



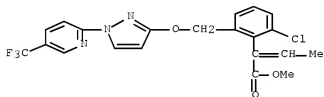
RN 174183-27-8 ZCAPLUS

CN Benzeneacetic acid, 2-chloro-α-ethylidene-6-[[[1-(4-methoxyphenyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



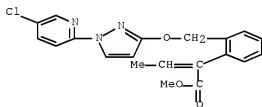
RN 174183-28-9 ZCAPLUS

CN Benzeneacetic acid, 2-chloro- $\alpha$ -ethylidene-6-[[[1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



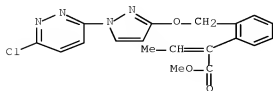
RN 174183-34-7 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(5-chloro-2-pyridinyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)

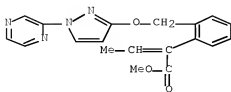


RN 174183-35-8 ZCAPLUS

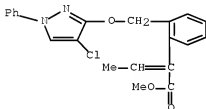
CN Benzeneacetic acid, 2-[[[1-(6-chloro-3-pyridazinyl)-1H-pyrazol-3-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



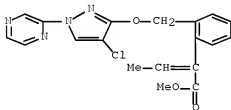
RN 174183-36-9 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[1-(pyrazinyl-1H-pyrazol-3-yl)oxy)methyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 174183-37-0 ZCAPLUS

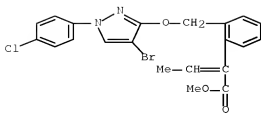
CN Benzeneacetic acid, 2-[[4-chloro-1-phenyl-1H-pyrazol-3-yl)oxy)methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)

RN 174183-38-1 ZCAPLUS

CN Benzeneacetic acid, 2-[[[4-chloro-1-pyrazinyl-1H-pyrazol-3-yl)oxy)methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)

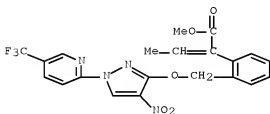
RN 174183-39-2 ZCAPLUS

CN Benzeneacetic acid, 2-[[[4-bromo-1-(4-chlorophenyl)-1H-pyrazol-3-yl)oxy)methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)



RN 174183-40-5 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[4-nitro-1-[5-(trifluoromethyl)-2-pyridinyl]-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

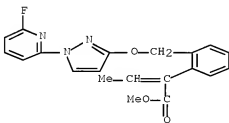


IT 174182-93-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of Me [alpha-(pyrazol-3-yl)oxymethylene]phenylbutenoate agrochem. fungicides and pesticides)

RN 174182-93-5 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[1-(6-fluoro-2-pyridinyl)-1H-pyrazol-3-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

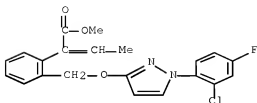


IT 174183-42-7P 174183-43-8P

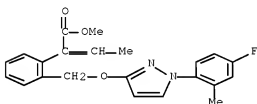
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of Me [alpha-(pyrazol-3-yl)oxymethylene]phenylbutenoate agrochem. fungicides and pesticides)

RN 174183-42-7 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2-chloro-4-fluorophenyl)-1H-pyrazol-3-

yl]oxy)methyl]- $\alpha$ -ethylidene-, methyl ester (9CI) (CA INDEX NAME)

RN 174183-43-8 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[1-(4-fluoro-2-methylphenyl)-1H-pyrazol-3-yl]oxy)methyl]-, methyl ester (9CI) (CA INDEX NAME)

L89 ANSWER 61 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:995024 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 124:117306

TITLE: Preparation of pyrazolyloxymethylphenylpropenoic ester derivatives as agrochemical fungicides

INVENTOR(S): Hwang, Ku-Jun; Kim, Sung Soo; Kim, Byung Sup

PATENT ASSIGNEE(S): Korea Research Institute of Chemical Technology, S. Korea

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9525095	A1	19950921	WO 1995-KR20	19950314 <--
W: AU, BR, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
KR 9706238	B1	19970425	KR 1994-5088	19940315 <--
AU 9519617	A	19951003	AU 1995-19617	19950314 <--
AU 692847	B2	19980618		
EP 750613	A1	19970102	EP 1995-912491	19950314 <--
R: DE, ES, FR, GB, IT				
JP 09503525	T	19970408	JP 1995-523958	19950314 <--
JP 3111320	B2	20001120		
US 5776965	A	19980707	US 1996-702634	19961101 <--



10/517214

PRIORITY APPLN. INFO.:

KR 1994-5088

A 19940315

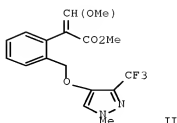
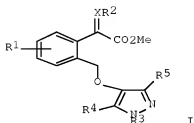
WO 1995-KR20

W 19950314

OTHER SOURCE(S):

MARPAT 124:117306

GI



AB The title compds. I [R1 represents hydrogen, halogen, nitro, an alkyl group having 1 to 6 carbon atoms, or an alkoxy group having 1 to 6 carbon atoms; R2 represents an alkoxy group having 1 to 6 carbon atoms, a haloalkoxy group having 1 to 6 carbon atoms, or an alkylthio group having 1 to 6 carbon atoms; R3 represents an alkyl group having 1 to 6 carbon atoms, an allyl group, a benzyl group, a Ph group, or a substituted Ph group by substituent selected from the group consisting of an alkyl group having 1 to 6 carbon atoms, an alkoxy group having 1 to 6 carbon atoms, nitro and halogen; R4 represents hydrogen, halogen, an alkyl group having 1 to 6 carbon atoms, a Ph group, etc.; R5 represents hydrogen, halogen, a haloalkyl group, etc.; and X represents carbon or nitrogen] are claimed. The title compound trans-II was prepared from Me 2-(2-bromomethylphenyl)-3-methoxypropenoate and 1-methyl-3-trifluoromethyl-4-hydroxypyrazole. Trans-II showed EC50 of 250 ppm against rice blast. Five other compds. of this invention showed EC50 values of <2 ppm to 10 ppm against rice blast, wheat leaf rust, etc.

IT 172834-81-OP 172834-82-1P 172834-83-2P

172834-84-3P 172834-85-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyrazoloxymethylphenylpropenoic ester derivs. as

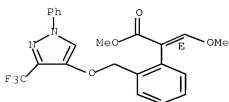
agrochem.

fungicides)

RN 172834-81-0 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

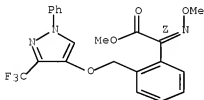
Double bond geometry as shown.



RN 172834-82-1 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxyimino)-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (Z)- (9CI)  
(CA INDEX NAME)

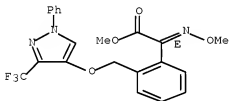
Double bond geometry as shown.



RN 172834-83-2 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxyimino)-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (E)- (9CI)  
(CA INDEX NAME)

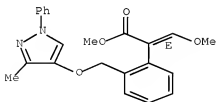
Double bond geometry as shown.



RN 172834-84-3 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[3-methyl-1-phenyl-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



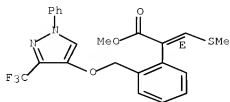
RN 172834-85-4 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methylthio)methylene]-2-[[[1-phenyl-3-

10/517214

(trifluoromethyl)-1H-pyrazol-4-yl]oxy)methyl]-, methyl ester, (E)- (9CI)  
(CA INDEX NAME)

Double bond geometry as shown.



IT 172834-86-5

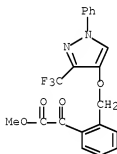
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyrazolyloxymethylphenylpropenoic ester derivs. as agrochem.

fungicides)

RN 172834-86-5 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -oxo-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]oxy)methyl]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 62 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:731727 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 123:112056

TITLE: 5-Arylisoxazol-4-yl-substituted 2-amino carboxylic acid compounds

INVENTOR(S): Moltzen, Lenz Sibylle; Falch, Erik; Boegesoe, Klaus Peter; Krogsgaard-Larsen, Povl

PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9512587	A1	19950511	WO 1994-DK411	19941102 <--

W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB,  
 GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW,  
 NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN  
 RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU,  
 MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN,  
 TD, TG

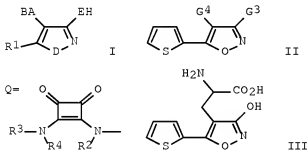
CA 2175685	A1	19950511	CA 1994-2175685	19941102 <--
AU 9480579	A	19950523	AU 1994-80579	19941102 <--
AU 680062	B2	19970717		
ZA 9408631	A	19950710	ZA 1994-8631	19941102 <--
EP 726896	A1	19960821	EP 1994-931523	19941102 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1136810	A	19961127	CN 1994-194388	19941102 <--
CN 1056837	B	20000927		
HU 74692	A2	19970128	HU 1996-1167	19941102 <--
JP 09504531	T	19970506	JP 1994-512970	19941102 <--
RU 2138488	C1	19990927	RU 1996-112168	19941102 <--
EP 994107	A1	20000419	EP 1999-125828	19941102 <--
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FI 9601872	A	19960503	FI 1996-1872	19960502 <--
NO 9601783	A	19960625	NO 1996-1783	19960502 <--

PRIORITY APPLN. INFO.:

DK 1993-1243	A	19931103
EP 1994-931523	A3	19941102
WO 1994-DK411	W	19941102

OTHER SOURCE(S): MARPAT 123:112056

GI



AB 2-Aminocarboxylic acid compds. substituted with 5-arylisoxazol-4-yl or 5-arylisothiazol-4-yl groups are claimed, specifically compds. I [A = bond or spacer; B = group CH(NR'R'')CO<sub>2</sub>H where R' and R'' = H or C1-6 alkyl, or B = cyclobutenedione group Q wherein R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> = various substituents; or R<sub>3</sub>R<sub>4</sub> or R<sub>2</sub>R<sub>4</sub> form ring; E = O, S, CO<sub>2</sub>, (CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>, O(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>, or S(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub> wherein n = 1-6, 5-tetrazolyl, 5-tetrazolylalkyl, 3-hydroxyisoxazolyl, or 3-hydroxyisoxazolylalkyl; D = O or S; R<sub>1</sub> = (un)substituted aryl or heteroaryl; certain racemic forms excluded]. I are excitatory amino acid receptor ligands useful in the treatment of cerebral ischemia, Huntington's disease, epileptic disorders, Parkinson's disease, Alzheimer's disease, schizophrenia, pain, depression and anxiety. For example, cyanation of 2-bromothiophene with CuCN in refluxing NMP gave 63% 2-thiophenecarbonitrile, which reacted with MeCHBrCO<sub>2</sub>Et and Zn in the presence of CuBr<sub>2</sub> to give 72% Et 2-methyl-3-(2-thienyl)-3-oxopropionate. This was cyclized with NH<sub>2</sub>OH to give 55% isoxazole derivative II (G<sub>3</sub> = OH, G<sub>4</sub> = Me), which underwent O-ethylation with EtBr and

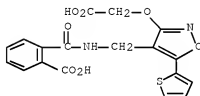
K2CO3 (51%) and benzylic bromination with NBS (100%) to give II (G3 = OEt, G4 = CH2Br). The latter was used to alkylate AcNHCH(CO2Et)2 (68%), and the resulting malonate diester was saponified, decarboxylated, deacetylated, and deethylated in refluxing 48% HBr, to give 30% title compound (+)-III. In the cortical wedge model in rats, this compound showed an AMPA agonist profile, with an EC50 of 5.8  $\mu$ M. A variety of addnl. I were similarly prepared and tested by this and other binding assays; they showed activity as agonists or antagonists at NMDA and/or AMPA receptors.

IT 166130-57-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; preparation of arylisoxazolyl amino carboxylic acids as AMPA/NMDA receptor ligands)

RN 166180-57-0 ZCAPLUS

CN Benzoic acid, 2-[[[3-(carboxymethoxy)-5-(2-thienyl)-4-isoxazolyl]methyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



L89 ANSWER 63 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:229475 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 122:239694

TITLE: Pesticidal 1-aryl-5-(substituted alkylideneimino)pyrazoles

INVENTOR(S): Huang, Jamin; Ayad, Hafez M.; Timmons, Philip R.

PATENT ASSIGNEE(S): Rhone-Poulenc AG Co., USA

SOURCE: U.S., 24 pp. Cont.-in-part of U.S. Ser. No. 790,449, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

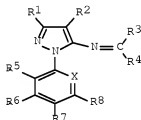
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5360910	A	19941101	US 1992-842431	19920304 <--
US 5236938	A	19930817	US 1991-693580	19910430 <--
CA 2067282	A1	19921031	CA 1992-2067282	19920427 <--
AU 9215192	A	19921105	AU 1992-15192	19920427 <--
AU 655014	B2	19941201		
IL 101702	A	19960331	IL 1992-101702	19920427 <--
NO 9201639	A	19921102	NO 1992-1639	19920428 <--
NO 303631	B1	19980810		
EP 511845	A1	19921104	EP 1992-303857	19920429 <--
EP 511845	B1	20011031		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE				
HU 61529	A2	19930128	HU 1992-1416	19920429 <--
HU 213630	B	19970828		

10/517214

PL 169737	B1	19960830	PL 1992-294383	19920429 <--
RU 2088576	C1	19970827	RU 1992-5011630	19920429 <--
AT 207904	T	20011115	AT 1992-303857	19920429 <--
ES 2165353	T3	20020316	ES 1992-303857	19920429 <--
PT 511845	T	20020429	PT 1992-303857	19920429 <--
CN 1066265	A	19921118	CN 1992-103156	19920430 <--
CN 1053659	B	20000621		
BR 9201735	A	19921124	BR 1992-1735	19920430 <--
ZA 9203175	A	19930127	ZA 1992-3175	19920430 <--
JP 05148240	A	19930615	JP 1992-111958	19920430 <--
JP 3248943	B2	20020121		
RO 107407	B1	19931130	RO 1992-598	19920430 <--
SK 279252	B6	19980805	SK 1992-1337	19920430 <--
CZ 286232	B6	20000216	CZ 1992-1337	19920430 <--
PRIORITY APPLN. INFO.:			US 1991-693580	A2 19910430
			US 1991-790449	B2 19911112
			US 1992-842431	A 19920304
			CS 1992-1337	A 19920430

OTHER SOURCE(S): MARPAT 122:239694  
GI



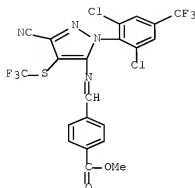
I

AB The invention describes novel 1-aryl-5-(substituted alkylideneimino)pyrazole of formula (I) wherein typically preferred substituents are: R1 is cyano, nitro, or halogen; R2 is R9S(O)<sub>n</sub> in which n is 0, 1 or 2 and R9 is alkyl, preferably Me which is substituted by halogen atoms which are the same or different up to full substitution of the alkyl moiety; R3 is hydrogen or alkyl; R4 is Ph or heteroaryl, optionally substituted by one or more hydroxy, halogen, alkoxy, alkylthio, cyano or alkyl or combinations thereof; preferably R4 is Ph, which is at least substituted by 3-hydroxy or 4-hydroxy; R5 is hydrogen, alkyl or halogen; R6 and R8 are hydrogen; R7 is halogen, alkyl, haloalkyl or haloalkoxy; and X is a nitrogen atom or CR14 in which R14 is hydrogen, halogen, cyano, alkyl, alkylthio or alkoxy. The invention further describes processes to make the compds., compns. of the compds., and methods of use of the compds. for the control of arthropods (mites, aphids or insects), nematodes, helminths, or protozoa. Pesticidal activity of I compds. providing 70-100% pest mortality was evaluated against buckthorn aphid, cotton aphid, southern armyworm, Mexican bean beetle, housefly, tobacco budworm, southern corn rootworm, western corn rootworm.

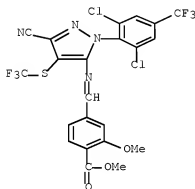
IT 162368-35-6P 162368-36-7P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(pesticidal 1-aryl-5-(substituted alkylideneimino)pyrazoles)

RN 162368-35-6 ZCAPLUS  
CN Benzoic acid, 4-[[[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-

[(trifluoromethyl)thio]-1H-pyrazol-5-yl]imino]methyl]-, methyl ester (9CI)  
(CA INDEX NAME)



RN 162368-36-7 ZCAPLUS  
CN Benzoic acid, 4-[[[3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-5-yl]imino]methyl]-2-methoxy-, methyl ester (9CI) (CA INDEX NAME)



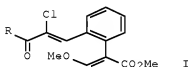
L89 ANSWER 64 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:220182 ZCAPLUS [Full-text](#)  
DOCUMENT NUMBER: 122:9667  
TITLE: Preparation of  $\alpha$ -(2-ethenylphenyl)acrylates as pesticides  
INVENTOR(S): Kirstgen, Reinhard Dr; Theobald, Hans Dr; Oberdorf, Klaus Dr; Doetzer, Reinhard Dr; Klintz, Ralf Dr; Schaefer, Bernd Dr; Harries, Volker Dr; Kardorff, Uwe Dr; Lorenz, Gisela Dr; Ammermann, Eberhard Dr  
PATENT ASSIGNEE(S): BASF A.-G., Germany  
SOURCE: Ger. Offen., 133 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: *Patent*  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4238260	A1	19940519	DE 1992-4238260	19921112 <--
CA 2149238	A1	19940526	CA 1993-2149238	19931102 <--
WO 9411334	A1	19940526	WO 1993-EP3067	19931102 <--
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9454634	A	19940608	AU 1994-54634	19931102 <--
AU 671504	B2	19960829		
EP 668852	A1	19950830	EP 1994-900087	19931102 <--
EP 668852	B1	19980225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
HU 73156	A2	19960628	HU 1995-1396	19931102 <--
JP 08506089	T	19960702	JP 1993-511673	19931102 <--
AT 163402	T	19980315	AT 1994-900087	19931102 <--
ES 2114676	T3	19980601	ES 1994-900087	19931102 <--
IL 107520	A	19981206	IL 1993-107520	19931105 <--
ZA 9308414	A	19950511	ZA 1993-8414	19931111 <--
CN 1098713	A	19950215	CN 1993-121327	19931112 <--
CN 1057995	B	20001101		
US 5633268	A	19970527	US 1995-433515	19950512 <--
PRIORITY APPLN. INFO.:			DE 1992-4238260	A 19921112
			WO 1993-EP3067	W 19931102

OTHER SOURCE(S): MARPAT 122:9667

GI



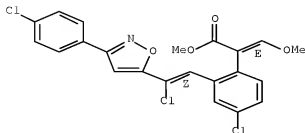
- AB R2R3C:CHZC(:X)COYMe [R2 = NO2, cyano, halo, alkoxy, alkanoylamino, alkoxy-carbonylamino, NHCO2CH2Ph; R3 = halo, (hetero)aryl, C(:Z1)TR4, C(:Z2)R5; R4 = H, alk(en)yl, aryl, etc.; R5 = H, cyano, halo, alkyl, alkoxy, aryl, etc.; T = O, S, NH, etc.; X = CHOMe, CHMe, NOME; Y = O or NH; Z = (un)substituted 1,2-C6H4; Z1 = O, S, (alkyl)imino, etc.; Z2 = O, (alkyl)imino, hydrazono, etc.] were prepared as agrochem. fungicides, insecticides, acaricides, and nematocides. Thus, (E)-2- (OHC)C6H4C(:CHOMe)CO2Me was condensed with (EtO)2P(O)CHClCO2Me to give title compound I (R = OMe) which was converted in 3 steps to I (R = SCMe3). The latter gave ≥80% control of *Aphis fabae* at 200ppm.
- IT 159375-84-5P 159375-85-6P 159375-86-7P  
159375-87-8P 159375-88-9P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)
- RN 159375-84-5 ZCAPLUS
- CN Benzeneacetic acid, 4-chloro-2-[2-chloro-2-[3-(4-chlorophenyl)-5-



10/517214

isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (Z,E)-  
(9CI) (CA INDEX NAME)

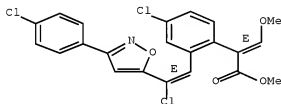
Double bond geometry as shown.



RN 159375-85-6 ZCAPLUS

CN Benzenesacetic acid, 4-chloro-2-[2-chloro-2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,E)-  
(9CI) (CA INDEX NAME)

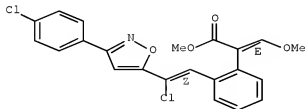
Double bond geometry as shown.



RN 159375-86-7 ZCAPLUS

CN Benzenesacetic acid, 2-[2-chloro-2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (Z,E)-  
(9CI) (CA INDEX NAME)

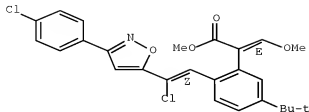
Double bond geometry as shown.



RN 159375-87-8 ZCAPLUS

CN Benzenesacetic acid, 2-[2-chloro-2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]-5-(1,1-dimethylethyl)- $\alpha$ -(methoxymethylene)-, methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

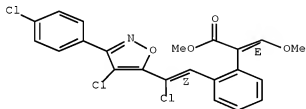
Double bond geometry as shown.



RN 159375-88-9 ZCAPLUS

CN Benzeneacetic acid, 2-[2-chloro-2-[4-chloro-3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]-α-(methoxymethylene)-, methyl ester, (Z,E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 65 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:655793 ZCAPLUS Full-text

DOCUMENT NUMBER: 121:255793

TITLE: Preparation of ortho-substituted N-methyl-α-(methoxyimino)benzeneacetamides as fungicides or insecticides

INVENTOR(S): Kirstgen, Reinhard; Grammenos, Wassilios; Bayer, Herbert; Doetzer, Reinhard; Koenig, Hartmann; Oberdorf, Klaus; Sauter, Hubert; Wingert, Horst; Lorenz, Gisela; et al.

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 56 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4305502	A1	19940825	DE 1993-4305502	19930223 <--
IL 108462	A	19981030	IL 1994-108462	19940128 <--
CA 2155571	A1	19940901	CA 1994-2155571	19940212 <--
WO 9419331	A1	19940901	WO 1994-EP408	19940212 <--

W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KP, KR, KZ, LK,

LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ, VN  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,  
 BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

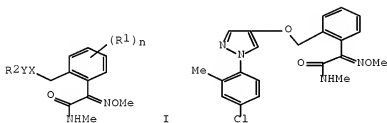
AU 9461091 A 19940914 AU 1994-61091 19940212 <--  
 AU 682339 B2 19971002  
 EP 686152 A1 19951213 EP 1994-907561 19940212 <--  
 EP 686152 B1 19970502  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE  
 BR 9405937 A 19960206 BR 1994-5937 19940212 <--  
 CN 1118165 A 19960306 CN 1994-191272 19940212 <--  
 CN 1046275 B 19991110  
 JP 08507055 T 19960730 JP 1994-518620 19940212 <--  
 JP 3420768 B2 20030630  
 HU 73548 A2 19960828 HU 1995-2454 19940212 <--  
 HU 216890 B 19991028  
 EP 757042 A1 19970205 EP 1996-115410 19940212 <--  
 EP 757042 B1 20030910  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE  
 AT 152447 T 19970515 AT 1994-907561 19940212 <--  
 ES 2102206 T3 19970716 ES 1994-907561 19940212 <--  
 RU 2130924 C1 19990527 RU 1995-122817 19940212 <--  
 CZ 285824 B6 19991117 CZ 1995-2154 19940212 <--  
 RO 115353 B1 20000128 RO 1995-1456 19940212 <--  
 PL 179860 B1 20001130 PL 1994-310382 19940212 <--  
 AT 249445 T 20030915 AT 1996-115410 19940212  
 ZA 9401189 A 19950822 ZA 1994-1189 19940222 <--  
 US 6031110 A 20000229 US 1995-505288 19950821 <--  
 US 6605631 B1 20030812 US 1999-409339 19990930

PRIORITY APPLN. INFO.:

DE 1993-4305502 A 19930223  
 EP 1994-907561 A3 19940212  
 WO 1994-EP408 W 19940212  
 US 1995-505288 A3 19950821

OTHER SOURCE(S): MARPAT 121:255793

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AB The title compds., ortho-substituted N-methyl- $\alpha$ -(methoxyimino)benzeneacetamides I (R1 = nitro, cyano, halo, alkyl, etc.; R2 = H, alkyl, etc.; X = oxygen, sulfur; Y = heteroarom. ring; n = integer) were disclosed as fungicides, insecticides, acaricides and nematocides. An example compound, (E)- $\alpha$ -(methoxyimino)-2-[2-[1-(4-chloro-2-methylphenyl)-1H-pyrazol-4-yl]oxymethyl]-N-methylbenzeneacetamide (II) was prepared Biol. test data for I were not shown.

IT 158668-39-4P 158668-47-4P 158668-48-5P  
 158668-49-6P 158668-50-9P 158668-51-0P  
 158668-52-1F 158668-53-2P 158668-54-3P

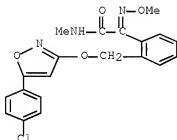
158668-55-4P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of  $\alpha$ -(methoxyimino)benzeneacetamides as fungicides insecticides)

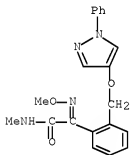
RN 158668-39-4 ZCAPLUS

CN Benzeneacetamide, 2-[[[5-(4-chlorophenyl)-3-isoxazolyl]oxy)methyl]- $\alpha$ -(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



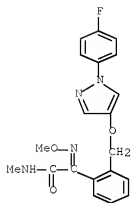
RN 158668-47-4 ZCAPLUS

CN Benzeneacetamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[[[1-phenyl-1H-pyrazol-4-yl]oxy)methyl]- (9CI) (CA INDEX NAME)



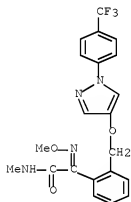
RN 158668-48-5 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-fluorophenyl)-1H-pyrazol-4-yl]oxy)methyl]- $\alpha$ -(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



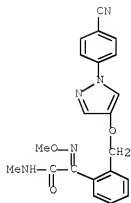
RN 158668-49-6 ZCAPLUS

CN Benzamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[[[1-(4-(trifluoromethyl)phenyl)-1H-pyrazol-4-yl]oxy]methyl]- (9CI) (CA INDEX NAME)



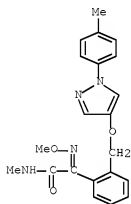
RN 158668-50-9 ZCAPLUS

CN Benzamide, 2-[[[1-(4-cyanophenyl)-1H-pyrazol-4-yl]oxy]methyl]- $\alpha$ -(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



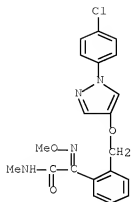
RN 158668-51-0 ZCAPLUS

CN Benzenesacetamide,  $\alpha$ -(methoxyimino)-N-methyl-2-[[[1-(4-methylphenyl)-1H-pyrazol-4-yl]oxy]methyl]- (9CI) (CA INDEX NAME)



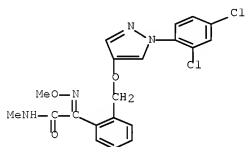
RN 158668-52-1 ZCAPLUS

CN Benzenesacetamide, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]- $\alpha$ -(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



RN 158668-53-2 ZCAPLUS

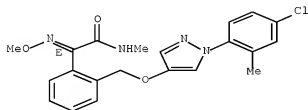
CN Benzeneacetamide, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]-α-(methoxyimino)-N-methyl- (9CI) (CA INDEX NAME)



RN 158668-54-3 ZCAPLUS

CN Benzeneacetamide, 2-[[[1-(4-chloro-2-methylphenyl)-1H-pyrazol-4-yl]oxy]methyl]-α-(methoxyimino)-N-methyl-, (E)- (9CI) (CA INDEX NAME)

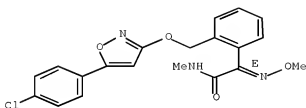
Double bond geometry as shown.



RN 158668-55-4 ZCAPLUS

CN Benzeneacetamide, 2-[[[5-(4-chlorophenyl)-3-isoxazolyl]oxy]methyl]-α-(methoxyimino)-N-methyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 158668-57-6P

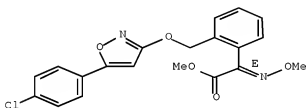
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of α-(methoxyimino)benzeneacetamides as fungicides insecticides)

RN 158668-57-6 ZCAPLUS

CN Benzeneacetic acid, 2-[[5-(4-chlorophenyl)-3-isoxazolyl]oxy]methyl]-α-(methoxyimino)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 66 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:604982 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 121:204982

TITLE: Acetylenic derivatives and their use as plant-protective agents

INVENTOR(S): Wingert, Horst; Hellendahl, Beate; Kirstgen, Reinhard; Sauter, Hubert; Ammermann, Eberhard; Lorenz, Gisela

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 70 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 582925	A1	19940216	EP 1993-112327	19930731 <--
EP 582925	B1	19961002		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
CA 2101664	A1	19940212	CA 1993-2101664	19930730 <--
US 5449809	A	19950912	US 1993-99693	19930730 <--



## 10/517214

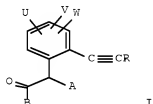
EP 718292	A1	19960626	EP 1996-101050	19930731 <--
EP 718292	B1	19980422		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
AT 143657	T	19961015	AT 1993-112327	19930731 <--
ES 2093335	T3	19961216	ES 1993-112327	19930731 <--
AT 165352	T	19980515	AT 1996-101050	19930731 <--
AU 9344517	A	19940217	AU 1993-44517	19930810 <--
AU 663208	B2	19950928		
JP 06239824	A	19940830	JP 1993-198510	19930810 <--
ZA 9305787	A	19950210	ZA 1993-5787	19930810 <--
HU 68742	A2	19950728	HU 1993-2315	19930810 <--
US 5686474	A	19971111	US 1995-443460	19950518 <--

PRIORITY APPLN. INFO.:

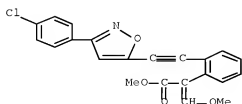
		DE 1992-4226557	A	19920811
		DE 1992-4239874	A	19921127
		US 1993-99693	A3	19930730
		EP 1993-112327	A3	19930731

OTHER SOURCE(S): MARPAT 121:204982

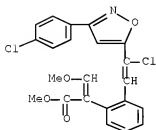
GI



- AB Title acetylene derivs. of general formula I, wherein U, V and W can be the same or different and are selected from H, halogen, nitro, cyano, or alkyl or alkoxy of 1 to 4 carbon atoms, A = alkylidene, alkylthio- or alkoxyethylidene or alkoxyimino of 1 to 4 carbon atoms, B = OH, alkoxy and alkylamino of 1 to 4 carbon atoms, R = e.g., H, halogen, CF<sub>3</sub>, alkyl, heteroarylthiomethyl, etc. were prepared and tested for fungicidal activity.
- IT 158036-25-QP 158036-30-7P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and reactivity of, as plant-protective fungicidal agents)
- RN 158036-25-0 ZCAPLUS
- CN Benzeneacetic acid, 2-[[3-(4-chlorophenyl)-5-isoxazolyl]ethynyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



RN 158036-30-7 ZCAPLUS  
 CN Benzenecetic acid, 2-[2-chloro-2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 67 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:469414 ZCAPLUS Full-text

DOCUMENT NUMBER: 121:69414

TITLE: Silver halide photographic material containing antiirradiation dye and polymer latex to improve quality of printed characters

INVENTOR(S): Morihara, Hideaki; Yoshida, Kazuhiro; Arai, Takeo

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: *Patent*

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06035097	A	19940210	JP 1992-195444	19920722 <--
PRIORITY APPLN. INFO.:			JP 1992-195444	19920722

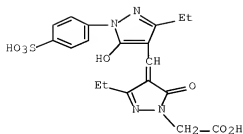
AB The claimed photog. material having  $\geq 1$  light-sensitive layer and  $\geq 1$  light-insensitive hydrophilic colloid layer on a support is characterized by (1) that the emulsion layer and the colloid layer contain a polymer latex stabilized by gelatin and (2) that the emulsion layer and/or hydrophilic colloid layer contains a water-soluble dye having the absorption peak at 400-500 nm. It provides a printed characters with an excellent sharpness with low background d., and remains little residual dye stain in the processed materials.

IT 156245-66-8

RL: TEM (Technical or engineered material use); USES (Uses)  
 (photog. material containing, antiirradn. dye)

RN 156245-66-8 ZCAPLUS

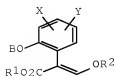
CN 1H-Pyrazole-1-acetic acid, 3-ethyl-4-[[3-ethyl-5-hydroxy-1-(4-sulfophenyl)-1H-pyrazol-4-yl]methylene]-4,5-dihydro-5-oxo-, disodium salt (9CI) (CA INDEX NAME)



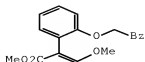
● 2 Na

L89 ANSWER 68 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:408893 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 121:8893  
 TITLE: Phenyl-substituted acrylate ester agrochemical fungicides  
 INVENTOR(S): Mueller, Bernd; Roehl, Franz; Koenig, Hartmann; Sauter, Hubert; Lorenz, Gisela; Ammermann, Eberhard  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 86 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 581095	A2	19940202	EP 1993-111103	19930712 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
CA 2100546	A1	19940125	CA 1993-2100546	19930714 <--
JP 06211748	A	19940802	JP 1993-181305	19930722 <--
AU 9342121	A	19940127	AU 1993-42121	19930723 <--
AU 660226	B2	19950615		
HU 66105	A2	19940928	HU 1993-2150	19930723 <--
ZA 9305332	A	19950123	ZA 1993-5332	19930723 <--
PRIORITY APPLN. INFO.: DE 1992-4224457			A	19920724
OTHER SOURCE(S):	MARPAT	121:8893		
GI				



I



II

AB The title compds. [I; B = (un)substituted alkyl, C1-4 (un)substituted alkenyl, (un)substituted alkynyl, etc.; R1, R2 = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, etc.; X, Y = H, halogen, CN, NO2, haloalkyl, alkyl, alkenyl, alkynyl, heteroaryl, heterocyclyl, etc.], useful as agrochem. fungicides, are prepared and I-containing formulations presented. Thus, Me  $\alpha$ -(2-hydroxyphenyl)- $\beta$ -methoxyacrylate was condensed with phenacyl bromide, producing acrylate II, m.p. 76°, which demonstrated 90% inhibitory activity against *Plasmopara viticola* at 250 ppm.

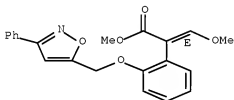
IT 154593-52-2P 154594-53-3P 154594-54-4P  
154594-55-5P 154594-69-1P 154594-70-4P  
154594-81-7P 154594-92-0P 154594-93-1P  
154594-94-2P 154594-95-3P 154594-96-4P  
154594-98-6P 154594-99-7P 154595-00-3P  
154595-03-6P 154595-04-7P 154595-05-8P  
154595-06-9P 154595-07-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

RN 154594-52-2 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[(3-phenyl-5-isoxazolyl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

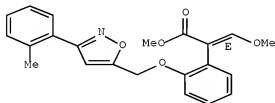
Double bond geometry as shown.



RN 154594-53-3 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[3-(2-methylphenyl)-5-isoxazolyl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

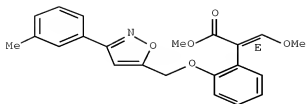
Double bond geometry as shown.



RN 154594-54-4 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[3-(3-methylphenyl)-5-isoxazolyl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

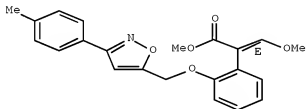
Double bond geometry as shown.



RN 154594-55-5 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[3-(4-methylphenyl)-5-isoxazolyl]methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

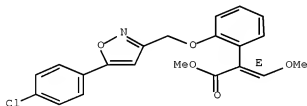
Double bond geometry as shown.



RN 154594-69-1 ZCAPLUS

CN Benzeneacetic acid, 2-[[5-(4-chlorophenyl)-3-isoxazolyl]methoxy]- $\alpha$ -(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

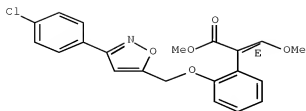
Double bond geometry as shown.



RN 154594-70-4 ZCAPLUS

CN Benzeneacetic acid, 2-[[3-(4-chlorophenyl)-5-isoxazolyl]methoxy]- $\alpha$ -(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

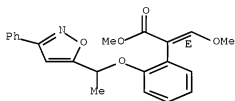
Double bond geometry as shown.



RN 154594-81-7 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[1-(3-phenyl-5-isoxazolyl)ethoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

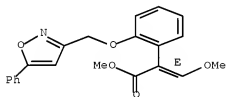
Double bond geometry as shown.



RN 154594-92-0 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[(5-phenyl-3-isoxazolyl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

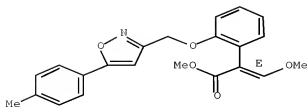
Double bond geometry as shown.



RN 154594-93-1 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[5-(4-methylphenyl)-3-isoxazolyl]methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

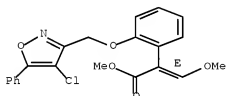
Double bond geometry as shown.



RN 154594-94-2 ZCAPLUS

CN Benzeneacetic acid, 2-[(4-chloro-5-phenyl-3-isoxazolyl)methoxy]- $\alpha$ -(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

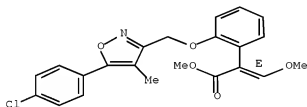
Double bond geometry as shown.



RN 154594-95-3 ZCAPLUS

CN Benzeneacetic acid, 2-[[5-(4-chlorophenyl)-4-methyl-3-isoxazolyl]methoxy]- $\alpha$ -(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

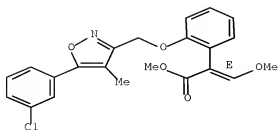
Double bond geometry as shown.



RN 154594-96-4 ZCAPLUS

CN Benzeneacetic acid, 2-[[5-(3-chlorophenyl)-4-methyl-3-isoxazolyl]methoxy]- $\alpha$ -(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

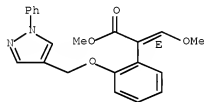
Double bond geometry as shown.



RN 154594-98-6 ZCAPLUS

CN Benzenesacetic acid,  $\alpha$ -(methoxymethylene)-2-[(1-phenyl-1H-pyrazol-4-yl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

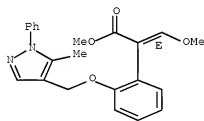
Double bond geometry as shown.



RN 154594-99-7 ZCAPLUS

CN Benzenesacetic acid,  $\alpha$ -(methoxymethylene)-2-[(5-methyl-1-phenyl-1H-pyrazol-4-yl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

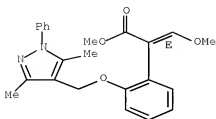


RN 154595-00-3 ZCAPLUS

CN Benzenesacetic acid, 2-[(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)methoxy]- $\alpha$ -(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

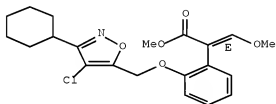




RN 154595-03-6 ZCAPLUS

CN Benzeneacetic acid, 2-[(4-chloro-3-cyclohexyl-5-isoxazolyl)methoxy]-  
α-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

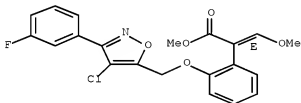
Double bond geometry as shown.



RN 154595-04-7 ZCAPLUS

CN Benzeneacetic acid, 2-[[4-chloro-3-(3-fluorophenyl)-5-isoxazolyl)methoxy]-  
α-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

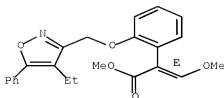
Double bond geometry as shown.



RN 154595-05-8 ZCAPLUS

CN Benzeneacetic acid, 2-[(4-ethyl-5-phenyl-3-isoxazolyl)methoxy]-α-  
(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

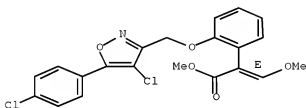
Double bond geometry as shown.



RN 154595-06-9 ZCAPLUS

CN Benzeneacetic acid, 2-[[4-chloro-5-(4-chlorophenyl)-3-isoxazolyl]methoxy]-  
α-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

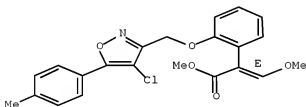
Double bond geometry as shown.



RN 154595-07-0 ZCAPLUS

CN Benzeneacetic acid, 2-[[4-chloro-5-(4-methylphenyl)-3-isoxazolyl]methoxy]-  
α-(methoxymethylene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 69 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:284782 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 120:284782

TITLE: Silver halide photographic material

INVENTOR(S): Takemura, Kumiko; Taguchi, Masaaki; Hashimoto,  
Hiroyuki; Kawashima, Yasuhiko; Usagawa, Yasushi; Inoe,  
Kyoshi; Oohashi, Hirobumi

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 72 pp.

CODEN: JKXXAF

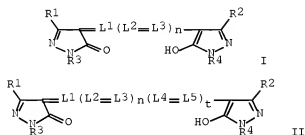
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05045790	A	19930226	JP 1991-201928	19910812 <--
JP 3030578	B2	20000410		
PRIORITY APPLN. INFO.:			JP 1991-201928	19910812

GI



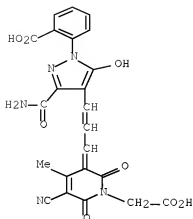
AB In the title material comprising a support having thereon hydrophilic colloid layers (including one or more silver halide emulsion layers), at least one of said hydrophilic colloid layers contains a dispersion of solid microparticles of a dye compound represented by I, II, etc. For I, R1, R2 = substituent; R3, R4 = Ph ring having linking group connected to carboxyl group; L1 to L3 = methine; n = 0 to 2. For II, R1, R2 = substituent; R3, R4 = H, alkyl, cycloalkyl, alkenyl, etc.; L1 to L5 = methine; n, t = 0 or 1. At least one silver halide emulsion layer in the title material contains one or more 1-phenyl-5-mercaptotetrazole derivs. The title material shows high sensitivity and gives sharp images.

IT 150441-04-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. material containing)

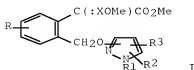
RN 150441-04-6 ZCAPLUS

CN 1(2H)-Pyridineacetic acid, 3-[3-[3-(aminocarbonyl)-1-(2-carboxyphenyl)-5-hydroxy-1H-pyrazol-4-yl]-2-propenylidene]-5-cyano-3,6-dihydro-4-methyl-2,6-dioxo- (9CI) (CA INDEX NAME)



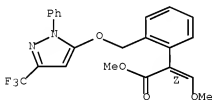
L89 ANSWER 70 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:245091 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 120:245091  
 TITLE: Preparation of pyrazole containing propenoic ester derivatives as agrochemical fungicides  
 INVENTOR(S): Hwang, Ki Jun; Kim, Sung Soo  
 PATENT ASSIGNEE(S): Korea Research Institute of Chemical Technology, S. Korea  
 SOURCE: PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9400436	A1	19940106	WO 1993-KR52	19930623 <--
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
KR 9506150	B1	19950609	KR 1992-11150	19920625 <--
AU 9454187	A	19940124	AU 1994-54187	19930623 <--
PRIORITY APPLN. INFO.:			KR 1992-11150	A 19920625
			WO 1993-KR52	A 19930623
OTHER SOURCE(S):	MARPAT 120:245091			
GI				



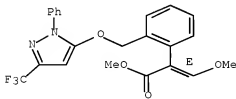
- AB Title compds. I (R = H, one or more halo, Me, alkyl, alkoxy, O<sub>2</sub>N, Ph; R<sub>1</sub> = Me, alkyl, alkenyl, alkynyl, PhCH<sub>2</sub>, aryl, (substituted), pyridyl; R<sub>2</sub>, R<sub>3</sub> = H, halo, F<sub>3</sub>C, haloalkyl; X = C, N) are prepared. To Ph<sub>3</sub>P+CH<sub>2</sub>OMe Br<sup>-</sup> in THF was added EtCHMeI in cyclohexane followed by Me 2-[2-[[1-methyl-5-(trifluoromethyl)-3-pyrazolyl]methyl]phenyl]glyoxylate in THF to give I (R = R<sub>2</sub> = H, R<sub>1</sub> = Me, R<sub>3</sub> = F<sub>3</sub>C, X = trans-CH) which showed EC<sub>50</sub> against wheat leaf rust and barley powdery mildew of <0.4 and <0.08 ppm, resp.
- IT 154315-23-8P 154315-24-9P 154315-25-0P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)
- RN 154315-23-8 ZCAPLUS
- CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]methyl]-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

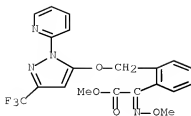


- RN 154315-24-9 ZCAPLUS
- CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



- RN 154315-25-0 ZCAPLUS
- CN Benzeneacetic acid,  $\alpha$ -(methoxyimino)-2-[[[1-(2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)

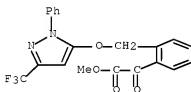


IT 154315-40-9 154315-41-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, in preparation of agrochem. fungicides)

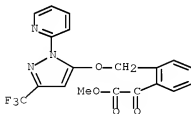
RN 154315-40-9 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -oxo-2-[[[1-phenyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 154315-41-0 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -oxo-2-[[[1-(2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]methyl]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 71 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:244258 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 120:244258

TITLE: A short synthesis of potential juvenoids based on the isoxazole chemistry

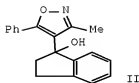
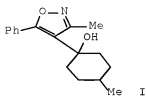
AUTHOR(S): Martin, Lourdes; Polo, Cecilia; Ramos, Vicente; Torroba, Tomas; Marcaccini, Stefano

CORPORATE SOURCE: Fac. Vet., Univ. Extremadura, Caceres, 10071, Spain

SOURCE: Heterocycles (1993), 36(10), 2259-65

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: *Journal*  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 120:244258  
 GI



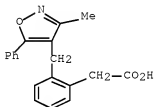
AB 3,4,5-Trisubstituted isoxazoles 1 (shown as I) and 4 (shown as II) afforded, after chromic oxidation and borohydride reduction, ( $\pm$ )-3-methyl-6-(3-methyl-5-phenylisoxazol-4-yl)-6-hydroxyhexanoic acid (2) or ( $\pm$ )-1-(3-methyl-5-phenylisoxazol-4-yl)-3,4-dihydro-1H-2-benzopyran-3-one (5) which were reduced to ( $\pm$ )-(Z/E)-3-methyl-7-benzoyl-8-oxonon-6-enoic acid (3) and (E)-2-(2-[2-benzoyl-3-oxobut-1-enyl]phenyl)acetic acid (6) with molybdenum hexacarbonyl. Lactone (5) afforded a single E-diastereoisomer of acid (6). Catalytic hydrogenation of 5 afforded selectively an isoxazole which was reduced with molybdenum hexacarbonyl to 2-(2-[2-benzoyl-3-oxobutyl]phenyl)acetic acid (8). Structures of products are related with those of some juvenoids.

IT 154051-10-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reduction of, with molybdenum hexacarbonyl)

RN 154051-10-2 ZCAPLUS

CN Benzeneacetic acid, 2-[(3-methyl-5-phenyl-4-isoxazolyl)methyl]- (9CI) (CA INDEX NAME)



L89 ANSWER 72 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:106997 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 120:106997

TITLE: Preparation of pyrazole derivatives and agrochemical fungicides

INVENTOR(S): Kasahara, Isamu; Iihama, Teruyuki; Sugiura, Tadashi; Hashimoto, Sho; Sano, Shinsuke; Hosokawa, Hiroyasu; Yokota, Chinami

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

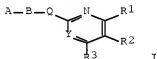
SOURCE: PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9307138	A1	19930415	WO 1992-JP1303	19921007 <--
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
AU 9226970	A	19930503	AU 1992-26970	19921007 <--
CN 1071424	A	19930428	CN 1992-111227	19921008 <--
PRIORITY APPLN. INFO.:			JP 1991-289158	A 19911008
			JP 1992-131571	A 19920424
			JP 1992-197457	A 19920702
			WO 1992-JP1303	A 19921007

OTHER SOURCE(S): MARPAT 120:106997  
 GI

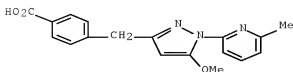


AB The title compds. [I; Y = CR6, N; R1, R2, R3, R4, R6 = H, halo, (un)substituted alkyl, (un)substituted alkoxy, (un)substituted alkenyloxy, etc.; R5 = H, halo, (un)substituted alkyl, (un)substituted alkoxy, etc.; A = (un)substituted aryl, (un)substituted heterocyclyl; B = (un)substituted alkylene, etc.; Q = (un)substituted pyrazolediyl] are prepared E.g., Et 4-(4-chlorophenyl)-3-oxobutanoate in EtOH was refluxed with (6-methyl-2-pyridyl)hydrazine to give 1-(6-methyl-2-pyridyl)-3-(4-chlorobenzyl)-5-hydroxy-1H-pyrazole, which was O-methylated with MeI to give 1-(6-methyl-2-pyridyl)-3-(4-chlorobenzyl)-5-methoxy-1H-pyrazole. This at 200 ppm effected >90% kill of *Cercospora beticola*.

IT 150400-56-9P 150400-57-0P 150400-58-1P  
 150400-61-6P 150400-78-5P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

RN 150400-56-9 ZCAPLUS

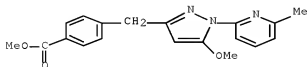
CN Benzoic acid, 4-[[5-methoxy-1-(6-methyl-2-pyridinyl)-1H-pyrazol-3-yl]methyl]- (9CI) (CA INDEX NAME)





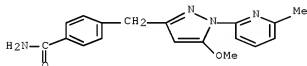
RN 150400-57-0 ZCAPLUS

CN Benzoic acid, 4-[[5-methoxy-1-(6-methyl-2-pyridinyl)-1H-pyrazol-3-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



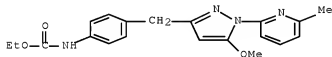
RN 150400-58-1 ZCAPLUS

CN Benzamide, 4-[[5-methoxy-1-(6-methyl-2-pyridinyl)-1H-pyrazol-3-yl]methyl]- (9CI) (CA INDEX NAME)



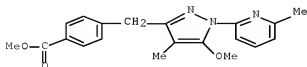
RN 150400-61-6 ZCAPLUS

CN Carbamic acid, [4-[[5-methoxy-1-(6-methyl-2-pyridinyl)-1H-pyrazol-3-yl]methyl]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 150400-78-5 ZCAPLUS

CN Benzoic acid, 4-[[5-methoxy-4-methyl-1-(6-methyl-2-pyridinyl)-1H-pyrazol-3-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



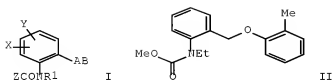
ACCESSION NUMBER: 1994:106561 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 120:106561  
 TITLE: Preparation of carbamates and plant-protecting agents containing them  
 INVENTOR(S): Mueller, Bernd; Sauter, Hubert; Roehl, Franz; Doetzer, Reinhard; Lorenz, Gisela; Ammermann, Eberhard  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: PCT Int. Appl., 764 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9315046	A1	19930805	WO 1993-EP104	19930118 <--
W: AT, AU, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MM, NL, NO, PL, RO, RU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
DE 4234012	A1	19940414	DE 1992-4234012	19921009 <--
DE 4234028	A1	19940414	DE 1992-4234028	19921009 <--
DE 4234067	A1	19940414	DE 1992-4234067	19921009 <--
DE 4234081	A1	19940414	DE 1992-4234081	19921009 <--
AU 9333514	A	19930901	AU 1993-33514	19930118 <--
AU 671974	B2	19960919		
EP 624155	A1	19941117	EP 1993-902227	19930118 <--
EP 624155	B1	19980506		
EP 624155	B2	20021211		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
JP 07502747	T	19950323	JP 1993-512897	19930118 <--
JP 3883566	B2	20070221		
HU 69026	A2	19950828	HU 1994-1961	19930118 <--
HU 217905	B	20000528		
BR 9305817	A	19951226	BR 1993-5817	19930118 <--
AT 165818	T	19980515	AT 1993-902227	19930118 <--
ES 2116436	T3	19980716	ES 1993-902227	19930118 <--
RU 2129118	C1	19990420	RU 1994-45970	19930118 <--
CZ 288922	B6	20010912	CZ 1994-1785	19930118 <--
SK 283351	B6	20030603	SK 1994-907	19930118
CA 2127110	C	20030923	CA 1993-2127110	19930118
IL 104489	A	20020421	IL 1993-104489	19930122 <--
ZA 9300604	A	19940728	ZA 1993-604	19930128 <--
FI 9403523	A	19940727	FI 1994-3523	19940727 <--
NO 9402814	A	19940728	NO 1994-2814	19940728 <--
NO 302467	B1	19980309		
US 5824705	A	19981020	US 1994-256628	19940729 <--
AU 9652465	A	19960725	AU 1996-52465	19960523 <--
AU 680592	B2	19970731		
US 5981532	A	19991109	US 1998-110884	19980707 <--
US 6075148	A	20000613	US 1999-275767	19990325 <--
US 6252083	B1	20010626	US 2000-527118	20000316 <--
PRIORITY APPLN. INFO.:			DE 1992-4202386	A 19920129
			DE 1992-4221007	A 19920626
			DE 1992-4234012	A 19921009
			DE 1992-4234028	A 19921009
			DE 1992-4234067	A 19921009
			DE 1992-4234081	A 19921009
			WO 1993-EP104	A 19930118

10/517214

US 1994-256628 A1 19940729  
 US 1998-110884 A3 19980707  
 US 1999-275767 A3 19990325

OTHER SOURCE(S): CASREACT 120:106561; MARPAT 120:106561  
 GI



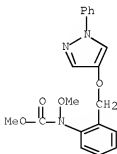
AB Title compds. [I; Z = MeO, NH<sub>2</sub>, NHMe, NMe<sub>2</sub>, Me, Et, CF<sub>3</sub>, CCl<sub>3</sub>; X, Y = H, F, Cl, Br, cyano, NO<sub>2</sub>, alkoxy, alkenyloxy, alkynyloxy, alkyl, alkenyl, alkynyl; XY = atoms to form a (substituted) (hetero)aromatic, alicyclic, heterocyclic, partially or fully hydrogenated ring; R1 = H, (substituted) alkyl, alkenyl, alkynyl, cyclopropyl, cyclopropylmethyl, cyclobutyl, CH<sub>2</sub>CN, CH<sub>2</sub>OMe, CO<sub>2</sub>Me, alkoxy, alkenyloxy, alkynyloxy, etc.; A = O, S, CR<sub>2</sub>:NO, C.tpbond.C, CHR<sub>2</sub>O<sub>2</sub>C, OCHR<sub>2</sub>, bond, etc.; R<sub>2</sub> = H, alkyl, alkenyl, alkynyl, cycloalkyl; B = H, cycloalkyl, cycloalkenyl, cycloalkynyl, aryl, heteroaryl, heterocyclyl, arylalkyl, etc.], were prepared. Thus, o-toluidine was stirred with ClCO<sub>2</sub>Me in CH<sub>2</sub>Cl<sub>2</sub> to give 100% 2-MeC<sub>6</sub>H<sub>4</sub>NHCO<sub>2</sub>Me, which in DMF was treated with NaH and EtI to give 93% 2-MeC<sub>6</sub>H<sub>4</sub>NEtCO<sub>2</sub>Me. This was irradiated with NBS and azobisisobutyronitrile in CCl<sub>4</sub> using a 300 W UV lamp to give 2-BrCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NEtCO<sub>2</sub>Me. This was stirred with p-cresol and NaH in DMF to give title compound II. Numerous I as 25 ppm sprays gave 95% control of Erysiphe graminis on wheat.

IT 151828-02-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agrochem. fungicide)

RN 151828-02-3 ZCAPLUS

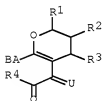
CN Carbamic acid, methoxy[2-[(1-phenyl-1H-pyrazol-4-yl)oxy]methyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



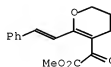
ACCESSION NUMBER: 1993:539098 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 119:139098  
 TITLE: Preparation of dihydropyran derivatives and plant protecting agents containing them  
 INVENTOR(S): Mueller, Bernd; Brand, Siegbert; Sauter, Hubert; Roehl, Franz; Ammermann, Eberhard; Lorenz, Gisela  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Eur. Pat. Appl., 153 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 534216	A1	19930331	EP 1992-115247	19920905 <--
EP 534216	B1	19980819		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
DE 4131311	A1	19930401	DE 1991-4131311	19910920 <--
JP 05213928	A	19930824	JP 1992-232502	19920831 <--
AT 169911	T	19980915	AT 1992-115247	19920905 <--
IL 103157	A	19980222	IL 1992-103157	19920914 <--
CA 2078625	A1	19930321	CA 1992-2078625	19920918 <--
AU 9224566	A	19930325	AU 1992-24566	19920918 <--
AU 651003	B2	19940707		
HU 61879	A2	19930329	HU 1992-2996	19920918 <--
HU 213029	B	19970128		
ZA 9207152	A	19940318	ZA 1992-7152	19920918 <--
US 5536734	A	19960716	US 1994-263414	19940621 <--
PRIORITY APPLN. INFO.:				
			DE 1991-413131	A 19910920
			US 1992-946651	B1 19920918

OTHER SOURCE(S): MARPAT 119:139098  
 GI



I



II

AB Title compds. [I; U = CHOR5, CHSR5, CH2, CHR5, CHX, NOR5; X = halo; A = bond, CHR6, (CHR7/CHR6)n, (CR21:CHR20)mCR7:CR6, C.tplbond.C, OCHR6, SCHR6, NR18CHR6, CO2CHR6, R19C:NOCHR6; B = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, (hetero)aryl, heterocyclyl, cycloalkenyl; R1 = H, OR8, (substituted) aryloxy; R2 = R9, (substituted) aryl; R3 = R10, (substituted) aryl, CHR11OR12, CO2R12, CONR12R13, CHR11CHR14B; R4 = OR15, NR16R17, R25; n = 1-3; m = 0, 1; R5, R8, R12, R13, R18, R25 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R6, R7, R11, R16, R17, R20, R21 = H, R5; R19 = H, cyano, (substituted) (cyclo)alkyl; R9, R10 = H, (substituted) (cyclo)alkyl, alkynyl;

with provisos], were prepared. Thus, 6-cyano-2,3-dihydropyran was reduced with DIBAL to give 78% 6-formyl-2,3-dihydropyran, which was treated with (PhCH<sub>2</sub>)Ph<sub>3</sub>PCl/KOCMe<sub>3</sub> in THF to give 85% 6-phenethenyl-2,3-dihydropyran. This was treated with Me oxalate and pyridine in CH<sub>2</sub>Cl<sub>2</sub> to give 94% Me 6-trans-phenethenyl-2,3-dihydropyranyl-5-glyoxalate. This was treated with EtPh<sub>3</sub>PCl/KOCMe<sub>3</sub> in THF to give 37% title compound II. Numerous I exhibited 95% control of *Plasmopara viticola* on grapevines. I are also said to be insecticides, nematocides, and plant growth regulators.

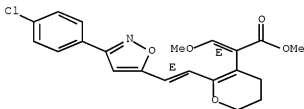
IT 149795-21-1P 149795-22-2P 149795-95-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as agrochem.)

RN 149795-21-1 ZCAPLUS

CN 2H-Pyran-5-acetic acid, 6-[2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]-3,4-dihydro- $\alpha$ -(methoxymethylene)-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

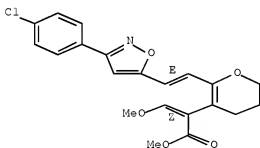
Double bond geometry as shown.



RN 149795-22-2 ZCAPLUS

CN 2H-Pyran-5-acetic acid, 6-[2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]-3,4-dihydro- $\alpha$ -(methoxymethylene)-, methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

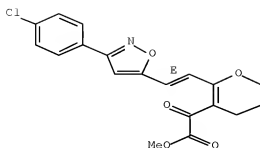
Double bond geometry as shown.



RN 149795-95-9 ZCAPLUS

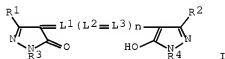
CN 2H-Pyran-5-acetic acid, 6-[2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]-3,4-dihydro- $\alpha$ -oxo-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 75 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:528317 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 119:128317  
 TITLE: Silver halide photographic material with good decolorization  
 INVENTOR(S): Yamada, Taketoshi; Hanyu, Takeshi  
 PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan  
 SOURCE: Jpn. Kokai Tokyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05045787	A	19930226	JP 1991-200510	19910809 <--
PRIORITY APPLN. INFO.:			JP 1991-200510	19910809
OTHER SOURCE(S):	MARPAT 119:128317			
GI				



AB The title material has a photog. constituent layer containing a dispersion of particles of a dye represented, e.g., by I. For I, R1, R2 = CO2H or substituent having CO2H; R3, R4 = H or substituent which has no CO2H; L1-L3 = methine; n = 0 to 2. The above-mentioned photog. constituent layer is located on a photosensitive silver halide emulsion layer which contains an organic compound which reacts with the developing agent. The title material shows good decolorization after photog. processing.

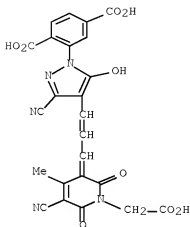
IT 149389-11-4

RL: TEM (Technical or engineered material use); USES (Uses)  
 (photog. materials containing)

RN 149489-71-4 ZCAPLUS

CN 1,4-Benzenedicarboxylic acid, 2-[4-[3-[1-(carboxymethyl)-5-cyano-1,6-dihydro-4-methyl-2,6-dioxo-3(2H)-pyridinylidene]-1-propenyl]-3-cyano-5-

hydroxy-1H-pyrazol-1-yl]- (9CI) (CA INDEX NAME)



L89 ANSWER 76 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:428146 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 119:28146

TITLE: Preparation of  $\alpha$ -(azolyvinylaryl)- $\beta$ -methoxyacrylates as pesticides

INVENTOR(S): Kirstgen, Reinhard; Theobald, Hans; Koenig, Hartmann; Harreus, Albrecht; Oberdorf, Klaus; Kardorff, Uwe; Harries, Volker; Lorenz, Gisela; Ammermann, Eberhard  
 BASF A.-G., Germany  
 Ger. Offen., 29 pp.

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

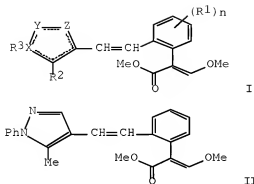
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4126994	A1	19930218	DE 1991-4126994	19910816 <--
JP 05213867	A	19930824	JP 1992-204996	19920731 <--
JP 3214906	B2	20011002		
EP 528245	A1	19930224	EP 1992-113197	19920803 <--
EP 528245	B1	19971112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
AT 160142	T	19971115	AT 1992-113197	19920803 <--
ES 2110456	T3	19980216	ES 1992-113197	19920803 <--
IL 102729	A	19981030	IL 1992-102729	19920804 <--
CA 2075416	A1	19930217	CA 1992-2075416	19920806 <--
US 5403838	A	19950404	US 1992-928038	19920811 <--
AU 9221005	A	19930218	AU 1992-21005	19920814 <--
AU 648193	B2	19940414		
HU 61652	A2	19930301	HU 1992-2653	19920814 <--
HU 212604	B	19960930		
ZA 9206120	A	19940214	ZA 1992-6120	19920814 <--
KR 221506	B1	19990915	KR 1992-14661	19920814 <--
PRIORITY APPLN. INFO.:			DE 1991-4126994	A 19910816

OTHER SOURCE(S):  
GI

CASREACT 119:28146; MARPAT 119:28146



AB Title compds. [I; X = C, N; Y, Z = CR<sub>4</sub>, N, O, S; n = 0-4; R<sub>1</sub> = NO<sub>2</sub>, cyano, halo, (halo)alkyl, (halo)alkoxy, alkylthio; (R<sub>1</sub>)<sub>2</sub> = (substituted) 1,3-butadien-1,4-diyl; R<sub>2</sub> = (halo)alkyl, halo, cyano, NO<sub>2</sub>, alkoxy, carbonyl, Me<sub>2</sub>N, H; R<sub>3</sub> = H, (substituted) alkyl, (substituted) (saturated) (O-, S-, or N-containing) ring system, (substituted) mono- or bicyclic aryl; R<sub>4</sub> = H, (halo)alkyl, halo, cyano, NO<sub>2</sub>, Me<sub>2</sub>N, alkoxy, carbonyl], were prepared as pesticides (no data). Thus, di-Me 2-(β-methoxy-2-methoxycarbonylvinyl)benzylphosphonate and 5-methyl-1-phenylpyrazol-4-ylcarboxaldehyde were stirred with NaH in THF overnight to give title compound II.

IT 148001-21-2P 148001-22-3P 148001-23-4P  
148001-24-5P 148001-26-7P 148001-27-8P  
148001-28-9P 148001-29-0P 148001-30-3P  
148001-31-4P 148001-32-5P 148001-33-6P  
148001-34-7P 148001-35-8P 148001-36-9P

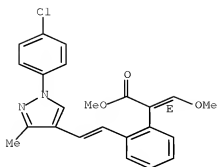
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)

RN 148001-21-2 ZCAPLUS

CN Benzenecetic acid, 2-[2-[1-(4-chlorophenyl)-3-methyl-1H-pyrazol-4-yl]ethenyl]-α-(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.

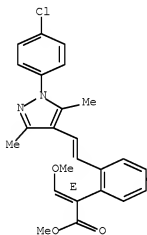




RN 148001-22-3 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[1-(4-chlorophenyl)-3,5-dimethyl-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)-(9CI) (CA INDEX NAME)

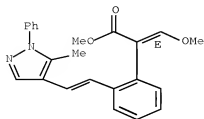
Double bond geometry as described by E or Z.



RN 148001-23-4 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[2-(5-methyl-1-phenyl-1H-pyrazol-4-yl)ethenyl]-, methyl ester, (E,?)-(9CI) (CA INDEX NAME)

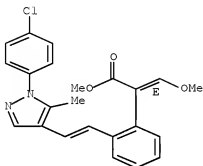
Double bond geometry as described by E or Z.



RN 148001-24-5 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[1-(4-chlorophenyl)-5-methyl-1H-pyrazol-4-yl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

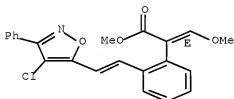
Double bond geometry as described by E or Z.



RN 148001-26-7 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-phenyl-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

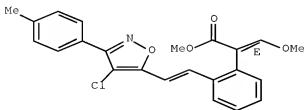
Double bond geometry as described by E or Z.



RN 148001-27-8 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(4-methylphenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

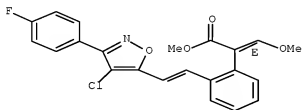
Double bond geometry as described by E or Z.



RN 148001-28-9 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(4-fluorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)-(9CI) (CA INDEX NAME)

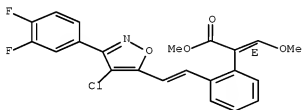
Double bond geometry as described by E or Z.



RN 148001-29-0 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(3,4-difluorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)-(9CI) (CA INDEX NAME)

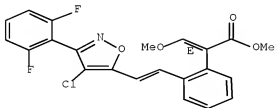
Double bond geometry as described by E or Z.



RN 148001-30-3 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(2,6-difluorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)-(9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.

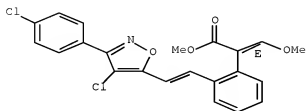


RN 148001-31-4 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,?)-

(9CI) (CA INDEX NAME)

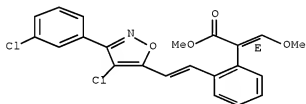
Double bond geometry as described by E or Z.



RN 148001-32-5 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

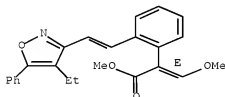
Double bond geometry as described by E or Z.



RN 148001-33-6 ZCAPLUS

CN Benzeneacetic acid, 2-[2-(4-ethyl-5-phenyl-3-isoxazolyl)ethenyl]-α-(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

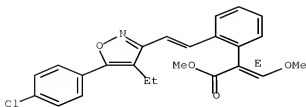
Double bond geometry as described by E or Z.



RN 148001-34-7 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[5-(4-chlorophenyl)-4-ethyl-3-isoxazolyl]ethenyl]-α-(methoxymethylene)-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

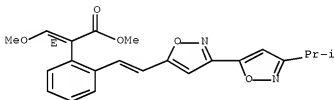
Double bond geometry as described by E or Z.



RN 148001-35-8 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[2-[3'-(1-methylethyl)[3,5'-biisoxazol]-5-yl]ethenyl]-, methyl ester, (E,?)- (9CI)  
(CA INDEX NAME)

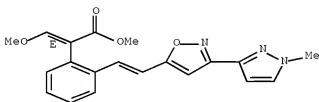
Double bond geometry as described by E or Z.



RN 148001-36-9 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxymethylene)-2-[2-[3-(1-methyl-1H-pyrazol-3-yl)-5-isoxazolyl]ethenyl]-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



L89 ANSWER 77 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:428133 ZCAPLUS Full-text

DOCUMENT NUMBER: 119:28133

TITLE: Derivatives of  $\beta$ -substituted cinnamic acid  
INVENTOR(S): Sauter, Hubert; Oberdorf, Klaus; Wünger, Horst; Von  
Deyn, Wolfgang; Grammenos, Wassilios; Koenig,  
Hartmann; Rang, Harald; Roehl, Franz; et al.

PATENT ASSIGNEE(S): BASF A.-G., Germany  
SOURCE: Eur. Pat. Appl., 127 pp.  
CODEN: EPXXDW

PATENT ASSIGNEE(S): BASF A.-G., Germany

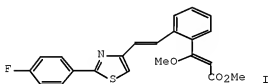
SOURCE: Eur. Pat. Appl., 127 pp.

CODEN: EPXXDW

DOCUMENT TYPE: *Patent*  
 LANGUAGE: *German*  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 525516	A2	19930203	EP 1992-112086	19920715 <--
EP 525516	A3	19930519		
EP 525516	B1	19950927		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
DE 4124989	A1	19930204	DE 1991-4124989	19910727 <--
AT 128454	T	19951015	AT 1992-112086	19920715 <--
ES 2078602	T3	19951216	ES 1992-112086	19920715 <--
JP 05255191	A	19931005	JP 1992-190680	19920717 <--
HU 61519	A2	19930128	HU 1992-2451	19920724 <--
HU 213456	B	19970630		
AU 9220590	A	19930128	AU 1992-20590	19920727 <--
AU 653612	B2	19941006		
ZA 9205613	A	19940127	ZA 1992-5613	19920727 <--
CA 2075354	A1	19930128	CA 1992-2075354	19920803 <--
US 5538940	A	19960723	US 1995-440126	19950512 <--
US 5573999	A	19961112	US 1995-441639	19950515 <--
PRIORITY APPLN. INFO.:			DE 1991-4124989	A 19910727
			US 1992-919270	B1 19920727
			US 1993-173936	B3 19931228

GI



AB Title compds. (235 compds.) were prepared as inhibitors of mitochondrial respiration. Thus, 2-MeC6H4Ac was treated with (MeO)2CO to give 94% 2-MeC6H4COCH2CO2Me which was enol methylated to give 94% (E)-2-MeC6H4C(OMe):CHCO2Me. The latter compound was brominated, oxidized to the aldehyde, and treated with 2-(4-fluorophenyl)-4- thiazolymethylphosphonium chloride to give the cinnamate I. At 1.8 + 10<sup>-5</sup> mol/L I caused 96 and 99% inhibition of mitochondrial respiration in *Saccharomyces cerevisiae* and *Musca domestica* resp.

IT 147500-08-1P 147500-09-2P 147500-10-5P  
 147500-11-6P 147500-13-7P 147500-13-6P  
 147500-14-9P 147500-15-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and fungicidal activity of)

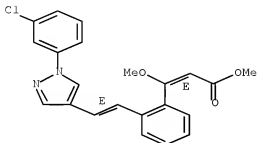
RN 147500-08-1 ZCAPLUS

CN 2-Propenoic acid, 3-[2-[2-[1-(3-chlorophenyl)-1H-pyrazol-4-

10/517214

yl]ethenyl]phenyl]-3-methoxy-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

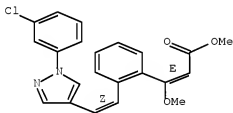
Double bond geometry as shown.



RN 147500-09-2 ZCAPLUS

CN 2-Propenoic acid, 3-[2-[2-[1-(3-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]phenyl]-3-methoxy-, methyl ester, (E,Z)- (9CI) (CA INDEX NAME)

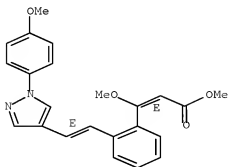
Double bond geometry as shown.



RN 147500-10-5 ZCAPLUS

CN 2-Propenoic acid, 3-methoxy-3-[2-[2-[1-(4-methoxyphenyl)-1H-pyrazol-4-yl]ethenyl]phenyl]-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



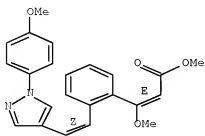
RN 147500-11-6 ZCAPLUS

CN 2-Propenoic acid, 3-methoxy-3-[2-[2-[1-(4-methoxyphenyl)-1H-pyrazol-4-

10/517214

yl]ethenyl]phenyl]-, methyl ester, (E,Z)- (9CI) (CA INDEX NAME)

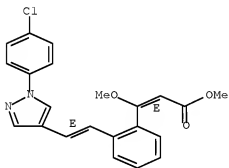
Double bond geometry as shown.



RN 147500-12-7 ZCAPLUS

CN 2-Propenoic acid, 3-[2-[1-(4-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]phenyl-3-methoxy-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

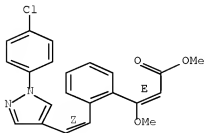
Double bond geometry as shown.



RN 147500-13-8 ZCAPLUS

CN 2-Propenoic acid, 3-[2-[1-(4-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]phenyl-3-methoxy-, methyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



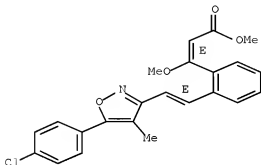
RN 147500-14-9 ZCAPLUS



10/517214

CN 2-Propenoic acid, 3-[2-[2-[5-(4-chlorophenyl)-4-methyl-3-isoxazolyl]ethenyl]phenyl]-3-methoxy-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

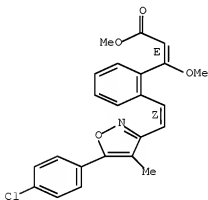
Double bond geometry as shown.



RN 147500-15-0 ZCAPLUS

CN 2-Propenoic acid, 3-[2-[2-[5-(4-chlorophenyl)-4-methyl-3-isoxazolyl]ethenyl]phenyl]-3-methoxy-, methyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



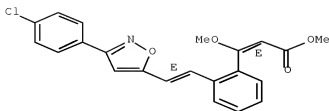
IT 147499-97-6P

RL: SPN (Synthetic Preparation); PREP (Preparation)  
(preparation and fungicidal and insecticidal activity of)

RN 147499-97-6 ZCAPLUS

CN 2-Propenoic acid, 3-[2-[2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]phenyl]-3-methoxy-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



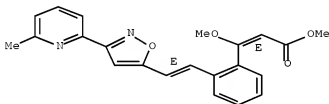
IT 147500-53-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 147500-53-6 ZCAPLUS

CN 2-Propenoic acid, 3-methoxy-3-[2-[2-[3-(6-methyl-2-pyridinyl)-5-isoxazolyl]ethenyl]phenyl]-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 78 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:124559 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 118:124559

TITLE: Preparation of (heterocyclyl)- $\alpha$ -phenylacrylates  
as agrochemical fungicidesINVENTOR(S): Grammenos, Wassilios; Kirstgen, Reinhard; Oberdorf,  
Klaus; Sauter, Hubert; Roehl, Franz; Otter, Rainer;  
Ammermann, Eberhard; Lorenz, Gisela; Kardorff, Uwe;  
Kuenast, Christoph

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 190 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

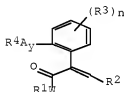
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

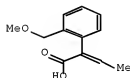
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 513580	A2	19921119	EP 1992-107059	19920424 <--
EP 513580	A3	19930331		
EP 513580	B1	19961023		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
DE 4116090	A1	19921119	DE 1991-4116090	19910517 <--
AT 144502	T	19961115	AT 1992-107059	19920424 <--
ES 2094842	T3	19970201	ES 1992-107059	19920424 <--
JP 05213815	A	19930824	JP 1992-111088	19920430 <--

JP 3234274	B2	20011204		
IL 101740	A	19970610	IL 1992-101740	19920430 <--
CA 2068017	A1	19921118	CA 1992-2068017	19920505 <--
AU 9216268	A	19921119	AU 1992-16268	19920515 <--
AU 648664	B2	19940428		
HU 61435	A2	19930128	HU 1992-1631	19920515 <--
HU 213444	B	19970630		
ZA 9203534	A	19931115	ZA 1992-3534	19920515 <--
KR 201241	B1	19990615	KR 1992-8243	19920515 <--
US 5298527	A	19940329	US 1993-103154	19930809 <--
US 5416068	A	19950516	US 1994-176649	19940103 <--
PRIORITY APPLN. INFO.:			DE 1991-4116090	A 19910517
			US 1992-878295	B1 19920506
			US 1993-103154	A3 19930809

OTHER SOURCE(S): MARPAT 118:124559  
GI



I



II

AB Title compds. [I; n = 0-4; yl = 0, 1; R1 = H, (halo-substituted) alkyl, alkenyl, alkynyl, cycloalkyl, vinyl, ethynyl; R2 = cyano, alkenyl, alkynyl, (substituted) cycloalkyl, heterocyclyl, alkyl; R3 = H, NO2, cyano, halo, (halo)alkyl, (halo)alkoxy, (halo)alkylthio; 2 adjacent R3's = R4 = H, CHO, (substituted) alkyl, alkenyl, alkynyl, (unsatd.) carbocyclyl, heterocyclyl, aryl, etc.; W = bond, O, S, imino; A = O, CO, O2C, S, SO, SO2, alkenylene, alkenylene, alkylene, imino, carbonylimino, N:N, etc.], were prepared. Thus, Ph3PcBr, Me 2-methoxymethylphenylglyoxylate (preparation given), and KOCMe3 were stirred in THF at 5-25° to give a mixture of olefins which was saponified with aqueous KOH to give title compound II. Numerous I as 250 ppm sprays reduced infestation of grape plants by *Plasmopara viticola* to 0-15%, vs. 70% for untreated controls.

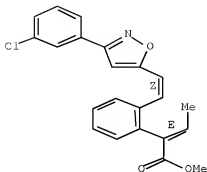
IT 145911-86-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of as agrochem. fungicide)

RN 145911-86-0 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -ethylidene-, methyl ester, (E,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



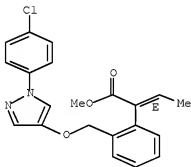
IT 145910-25-4P 145910-27-6P 145910-52-7P  
 145910-53-8P 145910-54-9P 145910-55-0P  
 145910-56-1P 145910-64-1P 145911-06-4P  
 145911-07-5P 145911-08-6P 145911-09-7P  
 145911-10-0P 145911-49-5P 145911-50-8P  
 145911-51-9P 145911-70-2P 145911-74-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)

RN 145910-25-4 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester, (E)- (9CI) (CA INDEX NAME)

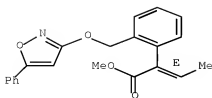
Double bond geometry as shown.



RN 145910-27-6 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[5-phenyl-3-isoxazolyl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

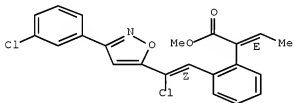
Double bond geometry as shown.



RN 145910-52-7 ZCAPLUS

CN Benzeneacetic acid, 2-[2-chloro-2-[3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-ethylidene-, methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

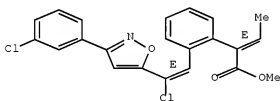
Double bond geometry as shown.



RN 145910-53-8 ZCAPLUS

CN Benzeneacetic acid, 2-[2-chloro-2-[3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-ethylidene-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

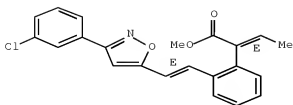
Double bond geometry as shown.



RN 145910-54-9 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-ethylidene-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

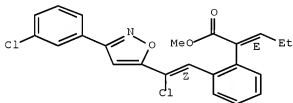
Double bond geometry as shown.



RN 145910-55-0 ZCAPLUS

CN Benzeneacetic acid, 2-[2-chloro-2-[3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-propylidene-, methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

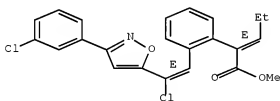
Double bond geometry as shown.



RN 145910-56-1 ZCAPLUS

CN Benzeneacetic acid, 2-[2-chloro-2-[3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-propylidene-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

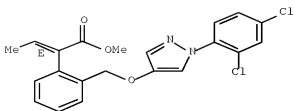
Double bond geometry as shown.



RN 145910-64-1 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(2,4-dichlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]-α-ethylidene-, methyl ester, (E)- (9CI) (CA INDEX NAME)

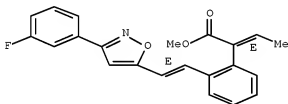
Double bond geometry as shown.



RN 145911-06-4 ZCAPLUS

CN Benzenecetic acid,  $\alpha$ -ethylidene-2-[2-[3-(3-fluorophenyl)-5-isoxazolyl]ethenyl]-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

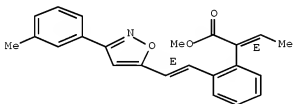
Double bond geometry as shown.



RN 145911-07-5 ZCAPLUS

CN Benzenecetic acid,  $\alpha$ -ethylidene-2-[2-[3-(3-methylphenyl)-5-isoxazolyl]ethenyl]-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

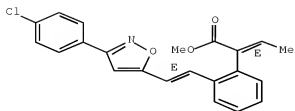
Double bond geometry as shown.



RN 145911-08-6 ZCAPLUS

CN Benzenecetic acid, 2-[2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -ethylidene-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

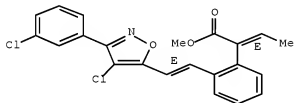
Double bond geometry as shown.



RN 145911-09-7 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[4-chloro-3-(3-chlorophenyl)-5-isoxazolyl]ethenyl]-α-ethylidene-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

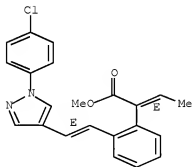
Double bond geometry as shown.



RN 145911-10-0 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[1-(4-chlorophenyl)-1H-pyrazol-4-yl]ethenyl]-α-ethylidene-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

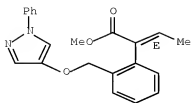


RN 145911-49-5 ZCAPLUS

CN Benzeneacetic acid, α-ethylidene-2-[[1-(4-chlorophenyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

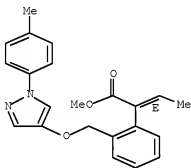




RN 145911-50-8 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[1-(4-methylphenyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

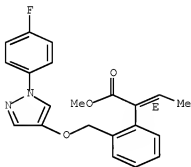
Double bond geometry as shown.



RN 145911-51-9 ZCAPLUS

CN Benzeneacetic acid,  $\alpha$ -ethylidene-2-[[[1-(4-fluorophenyl)-1H-pyrazol-4-yl]oxy]methyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

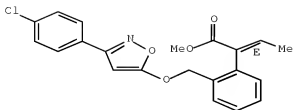
Double bond geometry as shown.



RN 145911-70-2 ZCAPLUS

CN Benzeneacetic acid, 2-[[[3-(4-chlorophenyl)-5-isoxazolyl]oxy]methyl]- $\alpha$ -ethylidene-, methyl ester, (E)- (9CI) (CA INDEX NAME)

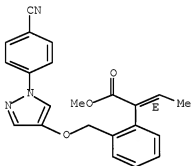
Double bond geometry as shown.



RN 145911-74-6 ZCAPLUS

CN Benzeneacetic acid, 2-[[[1-(4-cyanophenyl)-1H-pyrazol-4-yl]oxy]methyl]-  
α-ethylidene-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 79 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:73650 ZCAPLUS Full-text

DOCUMENT NUMBER: 118:73650

TITLE: Antimycotic phenylacetic acid derivatives

INVENTOR(S): Sauter, Hubert; Lorenz, Gisela; Steiner, Gerd;

Janssen, Bernd; Anke, Timm; Steglich, Wolfgang

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

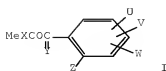
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 515901	A1	19921202	EP 1992-108035	19920513 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
DE 4117371	A1	19921203	DE 1991-4117371	19910528 <--
CA 2069691	A1	19921129	CA 1992-2069691	19920527 <--
JP 05170648	A	19930709	JP 1992-134851	19920527 <--
US 5334607	A	19940802	US 1992-889418	19920528 <--
			DE 1991-4117371	A 19910528

PRIORITY APPLN. INFO.:

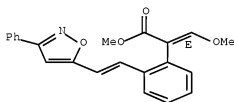
OTHER SOURCE(S): MARPAT 118:73650

GI



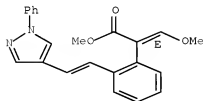
- AB The phenylacetic acid derivs. I (X = O, NH; Y = CHOMe, CHMe, CHet, CHSMe, NOME; Z = halo, NO<sub>2</sub>, CN, (un)substituted alkyl, aralkyl, aryloxyalkyl, etc.; U, V, W = H, Z, etc.) are medical fungicides. (E)-I (Z = 2-MeC<sub>6</sub>H<sub>4</sub>OCH<sub>2</sub>, X = O, Y = CHOMe, U = V = W = H) had a min. inhibitory concentration of 0.1 µg/mL against *Aspergillus niger*.
- IT 145849-22-5 145849-23-6  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (fungicide, medical)
- RN 145849-22-5 ZCAPLUS
- CN Benzeneacetic acid, α-(methoxymethylene)-2-[2-(3-phenyl-5-isoxazolyl)ethenyl]-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



- RN 145849-23-6 ZCAPLUS
- CN Benzeneacetic acid, α-(methoxymethylene)-2-[2-(1-phenyl-1H-pyrazol-4-yl)ethenyl]-, methyl ester, (E,?)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.

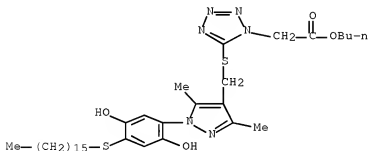


10/517214

ACCESSION NUMBER: 1993:70035 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 118:70035  
 TITLE: Silver halide photographic material  
 INVENTOR(S): Okawa, Atsuhiko; Hirano, Shigeo; Obayashi, Keiji;  
 Ichijima, Yasushi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04248547	A	19920904	JP 1991-33463	19910204 <--
PRIORITY APPLN. INFO.:			JP 1991-33463	19910204

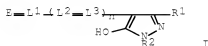
AB The title material contains a compound represented by X(T)mY(ZPUG)4n [X = oxidation-reduction group; upon oxidation or reduction of X, the bond between X and (T)m is cleaved; T = linking group; Y = N-containing heterocyclic ring are given; Z = methylene (which is linked to a carbon atom of the said heterocyclic ring); PUG = photog. useful group; m = 0 or 1; n = 1 to 3]. The title material gives sharp images.  
 IT 145601-01-0  
 RL: TEM (Technical or engineered material use); USES (Uses) (photog. material containing)  
 RN 145601-01-0 ZCAPLUS  
 CN 1H-Tetrazole-1-acetic acid, 5-[[[1-[4-(hexadecylthio)-2,5-dihydroxyphenyl]-3,5-dimethyl-1H-pyrazol-4-yl]methyl]thio]-, butyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 81 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN  
 ACCESSION NUMBER: 1992:184505 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 116:184505  
 TITLE: Silver halide photographic material  
 INVENTOR(S): Ohashi, Hirobumi; Kawashima, Yasuhiko; Kagawa, Nobuaki  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: *Patent*  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03204640	A	19910906	JP 1990-386	19900108 <--
PRIORITY APPLN. INFO.:			JP 1990-386	19900108

GI



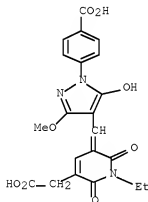
AB The title material on a support has at least one layer containing a dispersion of solid particles of a pyrazolone oxonol dye I (R1 = a substituent; R2 = H, alkyl, alkenyl, cycloalkyl, etc.; L1-L3 = a methine linkage; E = an acidic ring needed for forming an oxonol dye; n = 0-2). The title material shows excellent storage stability.

IT 140214-21-7 140214-35-3 140214-41-1

RL: TEM (Technical or engineered material use); USES (Uses)  
(silver halide photog. materials containing)

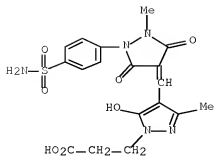
RN 140214-21-7 ZCAPLUS

CN 3-Pyridineacetic acid, 5-[[1-(4-carboxyphenyl)-5-hydroxy-3-methoxy-1H-pyrazol-4-yl]methylene]-1-ethyl-1,2,5,6-tetrahydro-2,6-dioxo- (9CI) (CA INDEX NAME)



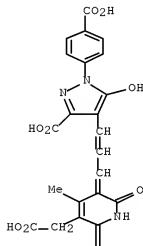
RN 140214-35-3 ZCAPLUS

CN 1H-Pyrazole-1-propanoic acid, 4-[[1-[4-(aminosulfonyl)phenyl]-2-methyl-3,5-dioxo-4-pyrazolidinylidene]methyl]-5-hydroxy-3-methyl- (9CI) (CA INDEX NAME)



RN 140214-41-1 ZCAPLUS  
 CN 3-Pyridineacetic acid, 5-[3-[3-carboxy-1-(4-carboxyphenyl)-5-hydroxy-1H-pyrazol-4-yl]-2-propenylidene]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-9CI (CA INDEX NAME)

PAGE 1-A



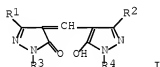
PAGE 2-A

II

L89 ANSWER 82 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:72186 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 116:72186  
 TITLE: Silver halide photographic material  
 INVENTOR(S): Yoshida, Kazuhiro; Hirabayashi, Kazuhiko  
 PATENT APPLICANT(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

DOCUMENT TYPE: CODEN: JKXXAF  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: Japanese  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03223843	A	19911002	JP 1990-20164	19900130 <--
PRIORITY APPLN. INFO.: GI			JP 1990-20164	19900130



AB At least one layer of the title material contain dyes I (R1, R2 = carboxy, alkyl, aryl, alkoxycarbonyl, aryloxycarbonyl; R3-4 = sulfo- or carboxy-substituted alkyl or aryl) and an anionic surfactant, and is hardened by a hardening agent CH2:CHSO2(CH2)mO(LO)p(CH2)nSO2CH:CH2 (L = divalent organic group; m, n > 0; p = 0, 1). This photog. material provides low stain and high scratch resistance under rapid processing, and have high resistance to blocking by adhesion and high storage stability.

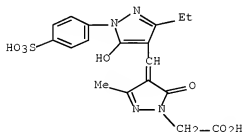
IT 138371-40-1

RL: USES (Uses)

(dye, backcoating of photog. films containing)

RN 138371-40-1 ZCAPLUS

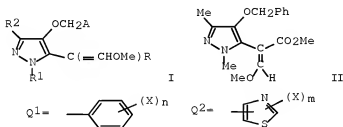
CN 1H-Pyrazole-1-acetic acid, 4,5-dihydro-4-[[3-ethyl-5-hydroxy-1-(4-sulfophenyl)-1H-pyrazol-4-yl]methylene]-3-methyl-5-oxo-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

ACCESSION NUMBER: 1991:559133 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 115:159133  
 TITLE: Preparation of pyrazolyl-substituted methyl methoxyacrylates as agrochemical fungicides  
 Oda, Masatsugu; Sakaki, Toshiro; Kikutake, Kuzuhiko  
 INVENTOR(S):  
 PATENT ASSIGNEE(S): Mitsubishi Kasei Corp., Japan  
 SOURCE: Eur. Pat. Appl., 76 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 433899	A1	19910626	EP 1990-124128	19901213 <--
EP 433899	B1	19950412		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL				
JP 04217668	A	19920807	JP 1990-324113	19901127 <--
JP 3018490	B2	20000313		
CA 2031974	A1	19910614	CA 1990-2031974	19901211 <--
US 5055477	A	19911008	US 1990-625762	19901213 <--
AT 121080	T	19950415	AT 1990-124128	19901213 <--
ES 2074113	T3	19950901	ES 1990-124128	19901213 <--
KR 157319	B1	19981116	KR 1990-20508	19901213 <--
US 5128481	A	19920707	US 1991-734292	19910717 <--
PRIORITY APPLN. INFO.:				
			JP 1989-323035	A 19891213
			JP 1990-79763	A 19900328
			JP 1990-273724	A 19901012
			JP 1990-324113	A 19901127
			US 1990-625762	A3 19901213
OTHER SOURCE(S): MARPAT 115:159133				
GI				



AB Pyrazolyl-substituted Me methoxyacrylates and analogs I (R1, R2 = H, C1-5 alkyl; A = Q1, Q2; X = H, halo, cyano, nitro, C1-10 alkyl, C1-10 alkoxy, etc.; m = 1, 2; n = 1-5; R = CO2Me, cyano) were prepared. Thus Et 4-benzyloxy-1,3-dimethylpyrazol-5-carboxylate (prepared by O-benylation of Et 1,3-dimethyl-4-hydroxypyrazol-5-carboxylate) was reduced to the corresponding alc. by LiAlH4. This was converted to the chloride by SOCl2, which was treated with NaCN to give (4-benzyloxy-1,3-dimethylpyrazol-5-yl)acetonitrile. Addition of the latter to a cooled solution of concentrated H2SO4 in MeOH gave the corresponding Me acetate derivative, which was condensed with HCOCOMe, then



treated with Me<sub>2</sub>SO<sub>4</sub> to give title compound II. An aqueous solution of II (200 ppm, stem-foliar application) gave 95% control of Puccinia recondita on wheat.

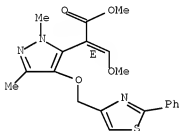
IT 136193-00-5P 136193-01-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as agricultural fungicide)

RN 136193-00-5 ZCAPLUS

CN 1H-Pyrazole-5-acetic acid,  $\alpha$ -(methoxymethylene)-1,3-dimethyl-4-[(2-phenyl-4-thiazolyl)methoxy]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

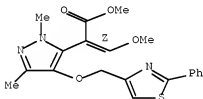
Double bond geometry as shown.



RN 136193-01-6 ZCAPLUS

CN 1H-Pyrazole-5-acetic acid,  $\alpha$ -(methoxymethylene)-1,3-dimethyl-4-[(2-phenyl-4-thiazolyl)methoxy]-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L89 ANSWER 84 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:449697 ZCAPLUS Full-text

DOCUMENT NUMBER: 115:49697

TITLE: Preparation of 1-carbamoyl-3-(arylmethylthio)-1,2,4-triazoles and S-oxidized analogs as herbicides  
Jelich, Klaus; Schmidt, Robert R.; Santel, Hans  
Joachim; Luerksen, Klaus

INVENTOR(S): Bayer A.-G., Germany

PATENT ASSIGNEE(S): Ger. Offen., 21 pp.

SOURCE: CODEN: GWXXBX

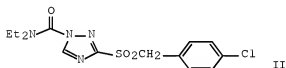
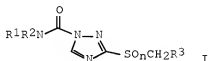
DOCUMENT TYPE: Patent

LANGUAGE: German

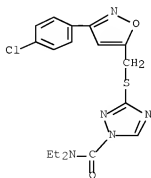
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

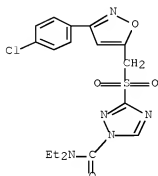
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3929673	A1	19910314	DE 1989-3929673	19890907 <--
EP 422369	A2	19910417	EP 1990-116317	19900825 <--
EP 422369	A3	19920226		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 03099066	A	19910424	JP 1990-233423	19900905 <--
PRIORITY APPLN. INFO.:			DE 1989-3929673	A 19890907
OTHER SOURCE(S):	CASREACT 115:49697; MARPAT 115:49697			
GI				



- AB Title compds. [I; R1,R2 = C1-6 alkyl; R3 = 4-ClC6H4, cyanophenyl, nitrophenyl, (substituted) 5- or 6-membered heteroaryl, benzoxazolyl, benzothiazolyl; n = 0-2], were prepared as herbicides (no data). Thus, Et2NCOCl was added to a mixture of 3-(4-chlorobenzylthio)-2H-1,2,4-triazole (preparation given) in pyridine and the mixture was stirred 15 h to give 85% carbamoylated product, which was S-oxidized with 3-ClC6H4C(O)OOH in CHCl3 to give 79.5% title compound II. II was said to be very well tolerated by rice while showing good herbicidal activity.
- IT 134795-55-4P 134795-64-5P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)
- RN 134795-55-4 ZCAPLUS
- CN 1H-1,2,4-Triazole-1-carboxamide, 3-[[[3-(4-chlorophenyl)-5-isoxazolyl]methylthio]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 134795-64-5 ZCAPLUS  
 CN 1H-1,2,4-Triazole-1-carboxamide, 3-[[[3-(4-chlorophenyl)-5-isoxazolyl]methyl]sulfonyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



L89 ANSWER 85 OF 102 ZCAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1990:552433 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 113:152433

TITLE: Preparation of heterocyclic-substituted

$\alpha$ -arylacrylates as pesticides and fungicides

INVENTOR(S): Schuetz, Franz; Neubauer, Hans Juergen; Kuekenhoechner, Thomas; Schirmer, Ulrich; Hofmeister, Peter; Kuenast, Christoph; Ammermann, Eberhard; Lorenz, Gisela; Kardorff, Uwe

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 25 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3836581	A1	19900503	DE 1988-3836581	19881027 <--
CA 2000362	A1	19900427	CA 1989-2000362	19891010 <--
CA 2000362	C	20010821		
CS 274476	B2	19910411	CS 1989-5825	19891013 <--
IL 91988	A	19930708	IL 1989-91988	19891013 <--
EP 378755	A1	19900725	EP 1989-119384	19891019 <--
EP 378755	B1	19931229		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
AT 99294	T	19940115	AT 1989-119384	19891019 <--
ES 2061878	T3	19941216	ES 1989-119384	19891019 <--
DD 284798	A5	19901128	DD 1989-333900	19891025 <--
AU 8943732	A	19900503	AU 1989-43732	19891026 <--
AU 621156	B2	19920305		
ZA 8908114	A	19910626	ZA 1989-8114	19891026 <--
HU 203269	B	19910729	HU 1989-5455	19891026 <--
JP 02180866	A	19900713	JP 1989-278765	19891027 <--
KR 127769	B1	19980401	KR 1989-15489	19891027 <--

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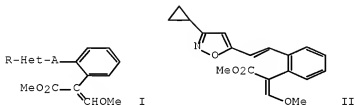
US 5166216	A	19921124	US 1991-701019	19910513 <--
US 5250553	A	19931005	US 1992-921765	19920730 <--
US 5294628	A	19940315	US 1993-94580	19930716 <--
US 5366984	A	19941122	US 1993-160836	19931203 <--

PRIORITY APPLN. INFO.:

		DE 1988-3836581	A	19881027
		US 1989-418664	B1	19891010
		EP 1989-119384	A	19891019
		US 1991-701019	A3	19910513
		US 1992-921765	A3	19920730
		US 1993-94580	A3	19930716

OTHER SOURCE(S): CASREACT 113:152433; MARPAT 113:152433

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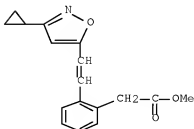


AB Title compds. I (R = alkyl, alkenyl, haloalkyl, cycloalkyl, alkoxy, alkylcarbonyl, alkoxy carbonyl, halo, (substituted) aryl; Met = (N-Me-substituted) 5-membered heteroarom. group containing 1-3 of O, S, and/or N and bound to A at a C atom; A = CH:CH, CH<sub>2</sub>CH<sub>2</sub>, CH<sub>2</sub>O, CH<sub>2</sub>S] were prepared as insecticides, acaricides, and nematocides (no data), and especially as fungicides for plants and materials. For example, Wittig-type reaction of di-Et 3-cyclopropylisoxazol-5-ylmethanephosphonate with Me 2-formylphenylacetate (preparation given) gave 47% Me 2-[2-(3-cyclopropylisoxazole-5-yl)ethenyl]phenylacetate, which underwent condensation with Me formate (82%) and subsequent O-methylation of the resultant β-hydroxyacrylate (80%) to give title compound II. As a 0.05 weight% spray on grapevine leaves, II gave 100% protection against *Plasmopara viticola*.

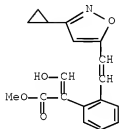
IT 129562-62-5P 129590-29-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, in preparation of heterocyclic-substituted acrylate fungicides)

RN 129562-62-5 ZCAPLUS

CN Benzeneacetic acid, 2-[2-(3-cyclopropyl-5-isoxazolyl)ethenyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 129590-29-0 ZCAPLUS

CN Benzeneacetic acid, 2-[2-(3-cyclopropyl-5-isoxazolyl)ethenyl]- $\alpha$ -(hydroxymethylene)-, methyl ester (9CI) (CA INDEX NAME)

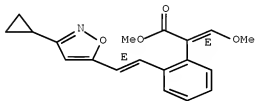
IT 129562-60-3P 129562-61-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as fungicide and pesticide)

RN 129562-60-3 ZCAPLUS

CN Benzeneacetic acid, 2-[2-(3-cyclopropyl-5-isoxazolyl)ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

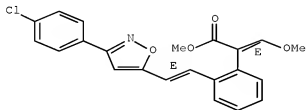
Double bond geometry as shown.



RN 129562-61-4 ZCAPLUS

CN Benzeneacetic acid, 2-[2-[3-(4-chlorophenyl)-5-isoxazolyl]ethenyl]- $\alpha$ -(methoxymethylene)-, methyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

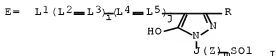


10/517214

L89 ANSWER 86 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:188900 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 112:188900  
 TITLE: Silver halide photographic material containing oxonol dye  
 INVENTOR(S): Kagawa, Nobuaki; Kawashima, Yasuhiko; Tanaka, Mari  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01224749	A	19890907	JP 1988-50789	19880304 <--
PRIORITY APPLN. INFO.:			JP 1988-50789	19880304

GI

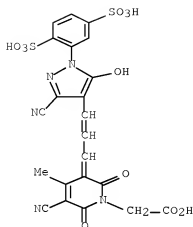


AB In the title photog. material,  $\geq 1$  of photog. constitutional layers contains an oxonol dye (I) [R = cyano, R1CO, SO2R1 (R1 = alkyl, aryl, heterocyclyl); J = divalent organic group; Z = CONR2, NR2CO, SO2NR2, NR2SO2, CO2, OCO, SO2, SO2O, OSO2, NR2CONR3, O(CpH2qO)n, NR2CO2, OCONR2, NR2, SO, (R2, R3 = H, alkyl, aryl, heterocyclyl); p, q = 2-4; n  $\geq 1$ ); sol = water-soluble functional group, or organic moiety with  $\geq 1$  of water-soluble functional groups; E = acid nucleus necessary to form an oxonol dye; L1-L5 = methine group; i, j, m = 0-1]. The dye is useful as filter dye, or in halation prevention or irradiation prevention.

IT 126484-69-3  
 RL: USES (Uses)  
 (photog. antihalation dye)

RN 126484-69-3 ZCAPLUS

CN 1(2H)-Pyridineacetic acid, 5-cyano-3-[3-[3-cyano-1-(2,5-disulfophenyl)-5-hydroxy-1H-pyrazol-4-yl]-2-propenylidene]-3,6-dihydro-4-methyl-2,6-dioxo-, dipotassium salt (9CI) (CA INDEX NAME)



● 2 K

L89 ANSWER 87 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:148984 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 112:148984

TITLE: Silver halide photographic material containing an oxonol dye to prevent loss of image sharpness due to halation

INVENTOR(S): Kagawa, Nobuaki; Kawashima, Yasuhiko; Tanaka, Mari

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

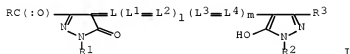
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01147452	A	19890609	JP 1987-307209	19871203 <--
PRIORITY APPLN. INFO.:			JP 1987-307209	19871203

GI



AB The photog. material having  $\geq 1$  hydrophilic colloid layer(s) contains in  $\geq 1$  of its component layer(s) an oxonol dye I (R = alkyl, aryl, heterocyclic group; R1 = alkyl, aryl, heterocyclic group substituted by sulfo, carboxyl or their salt; R2 = H, alkyl, aryl, heterocyclic ring; L, L1-4 = methyne; R3 = alkyl, aryl, heterocyclic ring, carboxyl, alkoxy, aryloxy, carbamoyl, amino, acylamino, imido, ureido, hydroxy, cyano, alkoxy carbonyl, aryloxy carbonyl; 1, m = 0, 1). It has an effective spectral filtering or antihalation function,

does not affect the photog. properties and is easily washed out during processing. Thus, in the manufacturing of a multilayer color paper, dye I (R, R<sup>3</sup> = Me; R<sup>1</sup>, R<sup>2</sup> = 2,5-di-sulfophenyl(K salt); l = 1; m = 0), dye I (R = Me; R<sup>3</sup> = CO<sub>2</sub>Et; R<sup>1</sup> = 2,5-di-sulfophenyl(K salt); R<sup>2</sup> = 4-sulfophenyl(K salt); l = 1; m = 0) and dye I (R = Me; R<sup>3</sup> = CN; R<sup>1</sup> = 2,5-di-sulfophenyl(K salt); R<sup>2</sup> = 4-sulfophenyl(K salt); l = 1; m = 1) were added to green-sensitive layer, interlayer and red-sensitive layer resp.

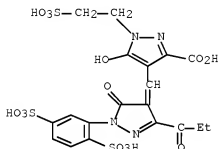
IT 125367-70-6

RL: USES (Uses)

(antihalation dye, for photog. paper)

RN 125367-70-6 ZCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 4-[[1-(2,5-disulfophenyl)-1,5-dihydro-5-oxo-3-(1-oxopropyl)-4H-pyrazol-4-ylidene]methyl]-5-hydroxy-1-(2-sulfoethyl)-, tripotassium salt (9CI) (CA INDEX NAME)



● 3 K

L89 ANSWER 88 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:574091 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 111:174091

TITLE: 4-[(Isoxazolyl or styryl)methylene]thiohydantoin derivatives as aldose reductase inhibitors  
 INVENTOR(S): Ogawa, Kazuo; Yamawaki, Ichiro; Matsushita, Yoichi  
 PATENT ASSIGNEE(S): Taiho Pharmaceutical Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

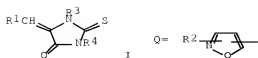
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8902890	A1	19890406	WO 1988-JP979	19880927 <--
W: AU, KR, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
JP 01156965	A	19890620	JP 1988-187252	19880726 <--
AU 8824842	A	19890418	AU 1988-24842	19880927 <--
PRIORITY APPLN. INFO.:			JP 1987-245591	A 19870929
			JP 1988-187252	A 19880726
			WO 1988-JP979	A 19880927

OTHER SOURCE(S): MARPAT 111:174091



GI



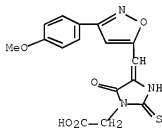
AB The title compds. [I; R1 = (tetrahydro)benzoxisoxazolyl, ( $\alpha$ -methyl)styryl, Q; R2 = halo, lower alkyl, CF<sub>3</sub>, MeO, phenethyl, PhCH<sub>2</sub>O, EtO<sub>2</sub>C, cyclopropyl, isobutylcyclohexyl, cyclohexylmethoxy, (halo or methoxy)phenyl, tetrahydropyranyl, thienyl, pyridyl]; R3, R4 = H, lower alkyl, HO<sub>2</sub>CCH<sub>2</sub>, halobenzyl] were prepared as aldose reductase inhibitors. A mixture of 5-propylisoxazol-3-aldehyde, 2-thiohydantoin-1-acetic acid, NaOAc, Ac<sub>2</sub>O, and AcOH was refluxed 3 h to give 59% I (R1 = 5-n-propylisoxazol-3-yl, R3 = H, R4 = CH<sub>2</sub>CO<sub>2</sub>H). I inhibited aldose reductase prepared from a supernatant liquid of homogenized rats' crystalline lenses and 1M phosphate buffer (pH 6.2) with IC<sub>50</sub>'s of 2.5-12 + 10-8M. Tablets (300 mg) were formulated from I (R1 = 5-tert-butylisoxazol-3-yl, R3 = H, R4 = CH<sub>2</sub>CO<sub>2</sub>H) 100, lactose 47, corn starch 50, crystalline cellulose 50, hydroxypropylcellulose 15, talc 2, magnesium stearate 2, ethylcellulose 30, unsatd. aliphatic acid glyceride 2 and TiO<sub>2</sub> 2 mg.

IT 122817-01-0F 122817-03-2P 122817-08-7P  
122817-10-1P 122817-13-4P 122817-24-7P  
122817-30-5P 122829-12-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as aldose reductase inhibitor)

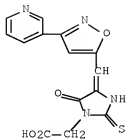
RN 122817-01-0 ZCAPLUS

CN 1-Imidazolidineacetic acid, 4-[[3-(4-methoxyphenyl)-5-isoxazolyl]methylene]-5-oxo-2-thioxo- (9CI) (CA INDEX NAME)



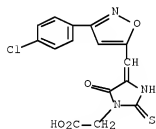
RN 122817-03-2 ZCAPLUS

CN 1-Imidazolidineacetic acid, 5-oxo-4-[[3-(3-pyridinyl)-5-isoxazolyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



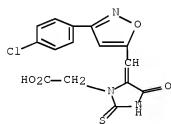
RN 122817-08-7 ZCAPLUS

CN 1-Imidazolidineacetic acid, 4-[[3-(4-chlorophenyl)-5-isoxazolyl]methylene]-5-oxo-2-thioxo- (9CI) (CA INDEX NAME)



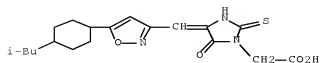
RN 122817-10-1 ZCAPLUS

CN 1-Imidazolidineacetic acid, 5-[[3-(4-chlorophenyl)-5-isoxazolyl]methylene]-4-oxo-2-thioxo- (9CI) (CA INDEX NAME)



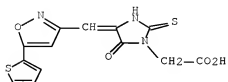
RN 122817-13-4 ZCAPLUS

CN 1-Imidazolidineacetic acid, 4-[[5-[4-(2-methylpropyl)cyclohexyl]-3-isoxazolyl]methylene]-5-oxo-2-thioxo- (9CI) (CA INDEX NAME)



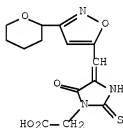
RN 122817-24-7 ZCAPLUS

CN 1-Imidazolidineacetic acid, 5-oxo-4-[[5-(2-thienyl)-3-isoxazolyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



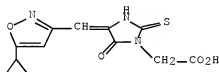
RN 122817-30-5 ZCAPLUS

CN 1-Imidazolidineacetic acid, 5-oxo-4-[[3-(tetrahydro-2H-pyran-2-yl)-5-isoxazolyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



RN 122829-12-3 ZCAPLUS

CN 1-Imidazolidineacetic acid, 4-[(5-cyclopropyl-3-isoxazolyl)methylene]-5-oxo-2-thioxo- (9CI) (CA INDEX NAME)



L89 ANSWER 89 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:5026 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 106:5026

TITLE: [(Pyrazolylalkoxy)phenyl]ureas

INVENTOR(S): Go, Atsushi; Usui, Yoshihiro; Endo, Keiji; Hikido, Mitsuru

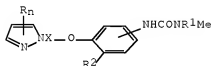
PATENT ASSIGNEE(S): Mitsubishi Petrochemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

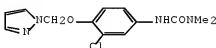
DOCUMENT TYPE: CODEN: JKXXAF  
 LANGUAGE: *Patent*  
 FAMILY ACC. NUM. COUNT: Japanese 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61197559	A	19860901	JP 1985-37127	19850226 <--
PRIORITY APPLN. INFO.:			JP 1985-37127	19850226

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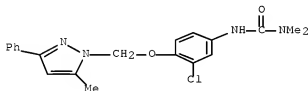
II

AB The title compds. [I; R = alkyl, halo, CF<sub>3</sub>, Ph; n = 0-3; R<sub>1</sub> = Me, MeO, H; R<sub>2</sub> = H, halo, CF<sub>3</sub>; X = CH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, CHMe], useful as herbicides, were prepared Thus, 3,4-Cl(HO)C<sub>6</sub>H<sub>3</sub>NHCONMe<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub> containing NaH was treated with 1-(chloromethyl)pyrazole-HCl at room temperature for 2.5 h to give II. II was almost 100% effective against Echinochloa crus-galli at 10 kg/ha.

IT 105675-70-5P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 105675-70-5 ZCAPLUS

CN Urea, N'-[3-chloro-4-[(5-methyl-3-phenyl-1H-pyrazol-1-yl)methoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L89 ANSWER 90 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:424270 ZCAPLUS Full-text

DOCUMENT NUMBER: 105:24270

TITLE: Herbicidal thiadiazolylureas

INVENTOR(S): Morland, Robert B.; Cooke, Anson R.; Bishop, John R.

PATENT ASSIGNEE(S): Union Carbide Corp., USA

SOURCE: U.S., 18 pp.

CODEN: USXXAM

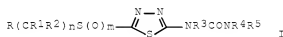
DOCUMENT TYPE: *Patent*

LANGUAGE: English

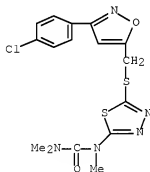
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4576629	A	19860318	US 1984-589724	19840315 <--
PRIORITY APPLN. INFO.:			US 1984-589724	19840315
OTHER SOURCE(S):		CASREACT 105:24270; MARPAT 105:24270		

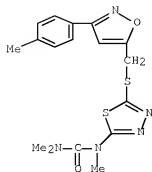
GI



- AB The title compds. I (R = heterocyclic or fused heterocyclic group; R1 and R2 are H, alkyl, cycloalkyl, alkoxy, carbalkoxy, halo; n = 1, 2, 3, 4, 5; m = 0, 1, 2; R3, R4, and R5 are H, cycloalkyl, Ph, alkyl, alkoxy), which showed herbicidal activity, were prepared A 2-amino-5-mercapto-1,3,4- thiadiazole was etherified and then treated with 1,1'-carbonyldiimidazole and Me2NH to give I (R = 2-thienyl, R1 = R2 = H, n = 1, m = 0, R3 = R4 = R5 = Me).
- IT 102902-11-4P 102902-12-5P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)
- RN 102902-11-4 ZCAPLUS
- CN Urea, [5-[[[3-(4-chlorophenyl)-5-isoxazolyl]methyl]thio]-1,3,4-thiadiazol-2-yl]trimethyl- (9CI) (CA INDEX NAME)



- RN 102902-12-5 ZCAPLUS
- CN Urea, trimethyl[5-[[[3-(4-methylphenyl)-5-isoxazolyl]methyl]thio]-1,3,4-thiadiazol-2-yl]- (9CI) (CA INDEX NAME)



L89 ANSWER 91 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:50811 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 104:50811

TITLE: Metalation of isoxazolyloxazolines, a facile route to functionally complex isoxazoles: utility, scope, and comparison to dianion methodology

AUTHOR(S): Natale, Nicholas R.; McKenna, John I.; Niou, Chong Shyr; Borth, Mark; Hope, Hakon

CORPORATE SOURCE: Dep. Chem., Univ. Idaho, Moscow, ID, 83843, USA

SOURCE: Journal of Organic Chemistry (1985), 50(26), 5660-6

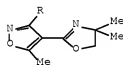
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: *Journal*

LANGUAGE: English

OTHER SOURCE(S): CASREACT 104:50811

GI



I

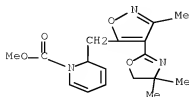
AB 2-(5'-Alkyl-4'-isoxazolyl)-Δ2-oxazolines I were lithiated at the C-5' alkyl group, and the lithio anions quenched with alkyl halides, aldehydes, and acylpyridinium salts as electrophiles. The lithio anion was also oxygenated with, e.g., N-(phenylsulfonyl)oxaziridine. The isoxazolyloxazoline system was converted into an isoxazolecaboxylic acid, an aldehyde, a ketone, and a chiral oxazoline. I were formed, metalated, and deprotected in synthetically useful yields, and represented a facile entry into functionally complex isoxazoles. To determine the necessity of the oxazoline protection/deprotection scheme, dianions of isoxazole-4- carboxylic acids were studied. The dianion method was found to be more efficient for simple alkyl halides, but limited in scope.

IT 99298-97-2P 99298-98-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and oxidation of)

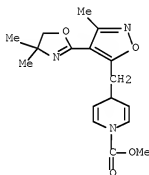
RN 99298-97-2 ZCAPLUS

CN 1(2H)-Pyridinecarboxylic acid, 2-[[4-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-3-methyl-5-isoxazolyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 99298-98-3 ZCAPLUS

CN 1(4H)-Pyridinecarboxylic acid, 4-[[4-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-3-methyl-5-isoxazolyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 92 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:24226 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 102:24226

TITLE: Contributions to the chemistry of tetraketones, III.

Synthesis and some reactions of 1,6-bis(p-hydroxyphenyl)-1,3,4,6-hexanetetrone

AUTHOR(S): Kovac, Spomenka; Rasic, Vladimir; Lacan, Marijan  
CORPORATE SOURCE: Fak. Nahrungsmitteltechnol., Univ. Osijek, Osijek,  
YU-54000, Yugoslavia

SOURCE: Liebigs Annalen der Chemie (1984), (10),  
1755-8

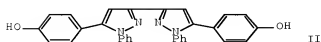
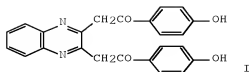
CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 102:24226

GI



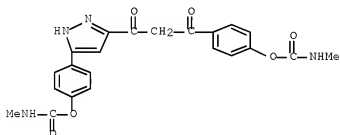
AB Condensation of 4-HOC6H4COMe with (CO2Et)2 gave the title compound, which, e.g., with o-C6H4(NH2)2 gave the quinoxaline I and with PhNHNH2 gave the bipyrazole II.

IT 93846-85-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 93846-85-6 ZCAPLUS

CN 1,3-Propanedione, 1-[4-[(methylamino)carbonyloxy]phenyl]-3-[5-[4-[(methylamino)carbonyloxy]phenyl]-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



L89 ANSWER 93 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:591912 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 101:191912

TITLE: Substituted 4-imidazolyl pyrazoles with antithromboembolic action

INVENTOR(S): Elbe, Hans Ludwig; Perzborn, Elisabeth; Seuter, Friedel

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 45 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

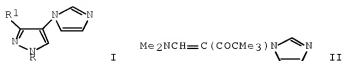
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3300795	A1	19840712	DE 1983-3300795	19830112 <--
EP 115640	A2	19840815	EP 1983-113222	19831230 <--

R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE



JP 59130881 A 19840727 JP 1984-2126 19840111 <--  
 PRIORITY APPLN. INFO.: DE 1983-3300795 A 19830112  
 OTHER SOURCE(S): CASREACT 101:191912; MARPAT 101:191912  
 GI



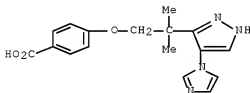
AB The title compds. [I; R = H, alkyl, alkenyl, alkynyl, alkanoyl, alkoxy carbonyl, (un)substituted Ph, PhCH<sub>2</sub>, heteroaryl; R1 = (un)substituted alkyl, cycloalkyl] were prepared. Thus, 1-(1H-imidazol-1-yl)-3,3-dimethyl-2-butanone was condensed with Me<sub>2</sub>NCH(OMe)<sub>2</sub> to give 90.5% pentenone II. II was cyclocondensed with N<sub>2</sub>H<sub>4</sub> to give 55.3% I (R = H, R1 = Me<sub>3</sub>C) (III). III inhibited the aggregation of blood platelets with a min. inhibitory concentration of  $1 + 10^{-5}$  -  $3 + 10^{-5}$  g/mL.

IT 92782-09-7P 92782-16-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

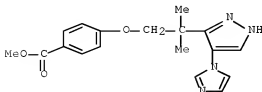
RN 92782-09-7 ZCAPLUS

CN Benzoic acid, 4-[2-[4-(1H-imidazol-1-yl)-1H-pyrazol-3-yl]-2-methylpropoxy]-  
 (9CI) (CA INDEX NAME)



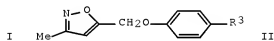
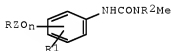
RN 92782-16-6 ZCAPLUS

CN Benzoic acid, 4-[2-[4-(1H-imidazol-1-yl)-1H-pyrazol-3-yl]-2-methylpropoxy]-  
 , methyl ester (9CI) (CA INDEX NAME)



TITLE: Urea derivatives and their use for controlling undesired plant growth  
 INVENTOR(S): Becker, Rainer; Theobald, Hans; Schirmer, Ulrich; Spiegler, Wolfgang; Seufert, Walter; Wuerzer, Bruno  
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 52 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3148291	A1	19830609	DE 1981-3148291	19811205 <--
IL 67286	A	19860331	IL 1982-67286	19821117 <--
CA 1187887	A1	19850528	CA 1982-415913	19821118 <--
US 4500340	A	19850219	US 1982-443523	19821122 <--
EP 81141	A1	19830615	EP 1982-110858	19821124 <--
EP 81141	B1	19850731		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
AT 14577	T	19850815	AT 1982-110858	19821124 <--
JP 58113177	A	19830705	JP 1982-207783	19821129 <--
BR 8207050	A	19831011	BR 1982-7050	19821203 <--
ZA 8208894	A	19831026	ZA 1982-8894	19821203 <--
PRIORITY APPLN. INFO.:				
			DE 1981-3148291	A 19811205
			EP 1982-110858	A 19821124
OTHER SOURCE(S): CASREACT 99:105236; MARPAT 99:105236				
GI				

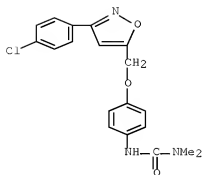


AB Herbicidal (no data) I [R = (un)substituted isoxazolyl, benzothiazolyl, oxadiazolyl, etc.; R1 = H, Me, F3C, halo; R2 = H, alkyl, alkenyl, alkynyl, alkoxy; Z = alkylene; n = 0, 1] were prepared. Thus, 113 g 3-methyl-5-isoxazolemethanol was treated with 4-FC6H4NO2 to give 201 g II (R3 = NO2), which (220 g) was reduced with SnCl2 to give 139 g II (R3 = NH2). This (20.4 g) was acylated with ClCONMe2 to give 14.1 g II (R3 = NHCONMe2).

IT 86913-13-5P 86913-15-7P 86913-23-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

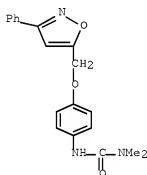
RN 86913-13-5 ZCAPLUS

CN Urea, N'-[4-[[3-(4-chlorophenyl)-5-isoxazolyl]methoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



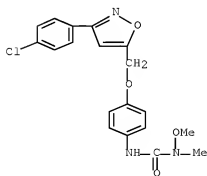
RN 86913-15-7 ZCAPLUS

CN Urea, N,N-dimethyl-N'-[4-[(3-phenyl-5-isoxazolyl)methoxy]phenyl]- (9CI)  
(CA INDEX NAME)



RN 86913-23-7 ZCAPLUS

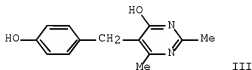
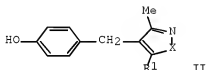
CN Urea, N'-[4-[[3-(4-chlorophenyl)-5-isoxazolyl)methoxy]phenyl]-N-methoxy-N-methyl- (9CI) (CA INDEX NAME)



L89 ANSWER 95 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:47172 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 94:47172  
 TITLE: Simple synthesis of 4-(heteroarylmethyl)phenols and their acylation  
 AUTHOR(S): Kuebel, Boerries  
 CORPORATE SOURCE: Hoechst A.-G., Frankfurt/Main, D-6230/80, Fed. Rep. Ger.  
 SOURCE: Liebigs Annalen der Chemie (1980), (9), 1392-401  
 CODEN: LACHDL; ISSN: 0170-2041  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 94:47172  
 GI



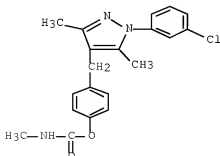
AB Condensation of 4-HOC6H4CHO with MeCOCH2COR (R = OEt, Me) gave 4-HOC6H4CH:C(COR)COMe, which were hydrogenated to 4-HOC6H4CH2CH(COR)COMe (I). These reacted with hydrazines or HONH2 to give II [R1 = Me, OH; X = NR2 (R2 = H, Me, m-tolyl, 3-ClC6H4), O]. Reaction of I (R = OEt) with acetamidine gave III. On acylation with MeNCO, II (R1 = Me, X = NH) and III are esterified at the phenolic OH group, whereas acid chlorides reacted with the R1 group of II (R1 = OH). In the case of II (R1 = Me, X = NH), the tendency toward O- or N-acylation depended on the base used.

IT 75999-10-9P 75999-20-1P

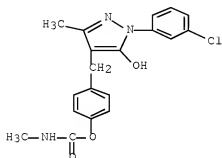
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 75999-10-9 ZCAPLUS

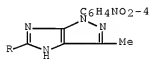
CN Phenol, 4-[[1-(3-chlorophenyl)-3,5-dimethyl-1H-pyrazol-4-yl]methyl]-, methylcarbamate (ester) (9CI) (CA INDEX NAME)



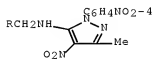
RN 75999-20-1 ZCAPLUS  
 CN 1H-Pyrazol-5-ol, 1-(3-chlorophenyl)-3-methyl-4-[[4-  
 [(methylamino)carbonyl]oxy]phenyl]methyl]- (9CI) (CA INDEX NAME)



L89 ANSWER 96 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1977:453160 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 87:53160  
 TITLE: Heterobicyclics; Part IV. Imidazole N-oxides. VII.  
 Imidazo[4,5-c]pyrazoles from 4-nitro-5-  
 benzylaminopyrazoles  
 AUTHOR(S): Lange, Marina; Quell, Ruediger; Lettau, Herbert;  
 Schubert, Hermann  
 CORPORATE SOURCE: Sekt. Chem., Martin-Luther-Univ. Halle-Wittenberg,  
 Halle/Saale, Ger. Dem. Rep.  
 SOURCE: Zeitschrift fuer Chemie (1977), 17(3), 94-5  
 CODEN: ZECEAL; ISSN: 0044-2402  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: German  
 OTHER SOURCE(S): CASREACT 87:53160  
 GI



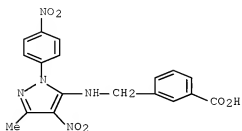
I



II

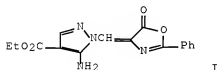
AB Imidazopyrazoles I [R = Ph, 4-MeC6H4, 4-ClC6H4, 4-BrC6H4, 4-H2NC6H4, 3-  
 HO2CC6H4, 2,4-Me2C6H3, 2,4-HO(O2N)C6H3] were prepared by cyclizing II with  
 base and reducing the 4-oxides of I with P(OEt)3 or TiCl3. II were obtained  
 by aminating the 5-chloropyrazole. II (R = 2-hydroxy-1-naphthyl) did not  
 cyclize.  
 IT 63451-62-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and cyclization of)

RN 63451-62-7 ZCAPLUS  
 CN Benzoic acid, 3-[[[3-methyl-4-nitro-1-(4-nitrophenyl)-1H-pyrazol-5-yl]amino]methyl]- (9CI) (CA INDEX NAME)

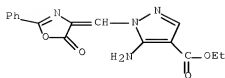


L89 ANSWER 97 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1976:421354 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 85:21354  
 TITLE: Substituted 4-[pyrazolyl-(1)-methylene]oxazolin-5-ones  
 INVENTOR(S): Vogel, Christian; Braeuniger, Harald; Kristen, Helmut; Peseke, Klaus  
 PATENT ASSIGNEE(S): Ger. Dem. Rep.  
 SOURCE: Ger. (East), 3 pp.  
 CODEN: GEXXA8  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 117228	A1	19760105	DD 1975-183770	19750123 <--
PRIORITY APPLN. INFO.: GI			DD 1975-183770	A1 19750123



AB The pyrazolymethyleneoxazolinone I was obtained in 45% yield by treating 4-ethoxymethyleneoxazolinone with H2NNHCH:C(CN)CO2Et.  
 IT 59681-38-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 59681-38-8 ZCAPLUS  
 CN 1H-Pyrazole-4-carboxylic acid, 5-amino-1-[(5-oxo-2-phenyl-4(5H)-oxazolylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 98 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:82795 ZCAPLUS [Full-text](#)

DOCUMENT NUMBER: 80:82795

TITLE: Syntheses of pyrazolone and pyrazole derivatives.

III. Syntheses of 3-substituted 5-methoxy-1-phenylpyrazole derivatives

AUTHOR(S): Izumi, Kihathi; Kitamikado, Tadashi; Sugiura, Shoji;

Kato, Kazuo; Hori, Mikio; Fujimura, Hajime

CORPORATE SOURCE: Res. Lab., Maruko Seiyaku Co., Ltd., Kasugai, Japan

SOURCE: Yakugaku Zasshi (1973), 93(10), 1349-55

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: *Journal*

LANGUAGE: Japanese

GI For diagram(s), see printed CA Issue.

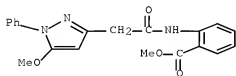
AB For studies on biological activity, syntheses of 3-substituted 5-methoxy-1-phenylpyrazoles were attempted. N-Substituted 5-methoxy-1-phenylpyrazol-3-ylacetamides I (R = H<sub>2</sub>NCO, MeNHCO, EtNHCO, etc.) were obtained from I (R = CO<sub>2</sub>H, CO<sub>2</sub>Et, COCl). 3-Amino-methyl-5-methoxy-1-phenylpyrazole (II) was synthesized from I (R = CO<sub>2</sub>H or H<sub>2</sub>NNHCO) by the Schmidt reaction or Curtius reaction. N-Acylmethylamine derivs., e.g. I (R = o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CONH) and Melubrin-type I (R = NaO<sub>3</sub>SCH<sub>2</sub>NH) were obtained from II, but the attempt to prepare N-alkylamine derivs. of II was unsuccessful. 3-Chloromethyl-5-methoxy-1-phenylpyrazole was synthesized from II, and N-alkylamine derivs., e.g. I (R = MeNH), and sulpyrin type I (R = NaO<sub>3</sub>SCH<sub>2</sub>NMe) were obtained from I (R = Cl).

IT 51862-40-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 51862-40-9 ZCAPLUS

CN Benzoic acid, 2-[[[(5-methoxy-1-phenyl-1H-pyrazol-3-yl)acetyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



L89 ANSWER 99 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1967:465090 ZCAPLUS [Full-text](#)

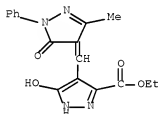
DOCUMENT NUMBER: 67:65090

ORIGINAL REFERENCE NO.: 67:12303a,12306a

TITLE: Pyrazolone stabilizers for poly- $\alpha$ -olefins

INVENTOR(S): Harris, Raymond Clement; Newland, Gordon C.  
 PATENT ASSIGNEE(S): Eastman Kodak Co.  
 SOURCE: U.S., 6 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 3325445		19670613	US 1966-575264	19630611 <--
GI	For diagram(s), see printed CA Issue.				
AB	<p>The stabilizers have the general formula I. Thus, low-d. polyethylene (II) of melt index 2 was compounded (roll temps. 220°F. and 270°F.) with 1% I (R1 = R4 = Ph, R2 = R3 = Me) for 4 min. and molded into 125-mil thick sheets. When exposed, under stress, to natural weathering and to a Twin-Arc Weather-Ometer, &gt;24 months and 3000 hrs., resp., were required before cracking occurred, compared with 12 months and 330 hrs. for control (II with no additive). No color change occurred. I (R1 = Ph, R2 = Me, R3 = iso-Bu, R4 = H) was used similarly to stabilize II. Similarly used to stabilize polypropylene (III), a 15:85 butene-propylene copolymer, and a 20:80 ethylene-propylene copolymer were the following I (R1-4, resp., given): Ph, Me, Me, Ph; Ph, Me, iso-Bu, H; Ph, Me, NH2, Ph; Ph, Me, CF3, H; Ph, Me, CO2H, Ph. Also used to stabilize III were the following I (R1-4, resp., given): Ph, Ph, iso-Bu, H; Ph, Me, Ph, H; Ph, Me, Ph, CH2CH2OH; Ph, Me, Me, SO2Ph; Ph, Me, Me, p-O2NC6H4; Ph, Me, CO2Et, Ph; Ph, Me, CO2Et, H.</p>				
IT	<p>18468-43-4          RL: USES (Uses)          (as ultraviolet stabilizer for olefin polymers)</p>				
RN	18468-43-4 ZCAPLUS				
CN	<p>Pyrazole-3-carboxylic acid, 5-hydroxy-4-[(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylidene)methyl]-, ethyl ester (8CI) (CA INDEX NAME)</p>				



L89 ANSWER 100 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1967:104945 ZCAPLUS Full-text  
 DOCUMENT NUMBER: 66:104945  
 ORIGINAL REFERENCE NO.: 66:19627a,19630a  
 TITLE: Some glyoxals with isoxazole and oxazole nuclei and their derivatives  
 AUTHOR(S): Giannella, M.; Gualtieri, Fulvio  
 CORPORATE SOURCE: Univ. Camerino, Camerino, Italy  
 SOURCE: Bollettino Chimico Farmaceutico (1966), 105, 708-18  
 CODEN: BCFAAI; ISSN: 0006-6648



DOCUMENT TYPE:

Journal

LANGUAGE:

Italian

GI For diagram(s), see printed CA Issue.

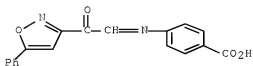
AB The title compds. are prepared and tested as antivirals and bacteriostatics. Thus, 23 g. 2,5-dimethyl-4-acetyloxazole in dioxane is added to 21.97 g. SeO<sub>2</sub> in 275 ml. dioxane and 27.5 ml. H<sub>2</sub>O, the solution refluxed 20 hrs., boiled with C, and filtered, and the solvent evaporated in vacuo to give 28 g. I (R = COCH(OH)2), m. 112-14° (C<sub>6</sub>H<sub>6</sub>). The following I are prepared (R and m.p. given): COCH:NOH, 170-70.5°; COCH:NNHCONH<sub>2</sub>, 219° (decomposition); COCH:NNHCSNH<sub>2</sub>, 217-18° (decomposition); COCH:NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H-p, 159-60°; COCH:NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NH<sub>2</sub>-p, 219-20°; COCH:NNHCOC<sub>5</sub>H<sub>4</sub>N-4, 206-8°; C(CH:NNHCONH<sub>2</sub>):NNHCONH<sub>2</sub>, 238° (decomposition); C(CH:NNHCOC<sub>5</sub>H<sub>4</sub>N-4):NNHCOC<sub>5</sub>H<sub>4</sub>N-4, 241-2°; 5-Phenyl-3-acetylloxazole (2 g.) is added to 1.42 g. SeO<sub>2</sub> in 30 ml. 10% H<sub>2</sub>O-dioxane. After the theoretical amount of Se is collected, the same volume of H<sub>2</sub>O is added, the mixture boiled with C and filtered, and the solvent evaporated in vacuo to give II (R = COCH(OH)2), m. 55-6° (H<sub>2</sub>O). The following II are prepared (R and m.p. given): COCH:NNHCONH<sub>2</sub>, 200-1°; COCH:NNHCSNH<sub>2</sub>, 224-5° (decomposition); COCH:NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H-p, 99-100°; COCH:NNHCOC<sub>5</sub>H<sub>4</sub>N-4, 203-4°. 3-Phenyl-4-acetyl-5-methylisoxazole (2 g.) in dioxane is added to 1.32 g. SeO<sub>2</sub> in 20 ml. 10% H<sub>2</sub>O-dioxane, the mixture refluxed until the separation of Se is complete, boiled with C and filtered and the solvent evaporated in vacuo to give 2.5 g. III (R = COCH(OH)2) m. 87-9° (H<sub>2</sub>O). The following III are prepared (R and m.p. given): COCH:NOH, 143-4°; COCH:NNHCONH<sub>2</sub>, 196-7° (decomposition); COCH:NNHCSNH<sub>2</sub>, 173-4°; COCH:NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H-p (IV), 132-3°; COCH:NNHCOC<sub>5</sub>H<sub>4</sub>N-4 (V), 165-6°; Glyoxal monohydrate (0.5 g.) in EtOH is treated with 0.35 g. concentrated aqueous KOH, the solution heated 8 hrs. and cooled, H<sub>2</sub>O added, and the mixture acidified with dilute HCl (3-phenyl-5-methyl-4-isoxazolylhydroxyacetic acid, m. 87.8° (water). Formaldehyde (20 ml., 40%) and 40 ml. 15% NH<sub>3</sub> are added slowly with stirring and cooling to 1.0 g. glyoxal monohydrate in 20 ml. EtOH and the mixture kept overnight and treated with ice to give 4-(3-phenyl-5-methyl-4-isoxazolyl)imidazole, m. 219-20° (HCONMe<sub>2</sub>). Acetylacetone (6 g.) is added slowly, dropwise with stirring into a EtONa solution (obtained from 1.37 g. Na and 100 ml. absolute EtOH) and the mixture cooled with water-ice mixture, treated with 12 g. p-nitrobenzohydroxamoyl chloride in 100 ml. absolute EtOH, kept overnight, and filtered to give 10.4 g. 3-(p-nitrophenyl)-4-acetyl-5-methylisoxazole (VI), m. 147-8° (EtOH). VI (7.5 g.) in dioxane is added to 4.05 g. SeO<sub>2</sub> in 54 ml. dioxane-6 ml. H<sub>2</sub>O. Refluxing 24 hrs. Se separation, water addition, boiling with C, filtration, and solvent elimination gave 9.5 g. VII (R = COCH(OH)2), m. 108-9° (H<sub>2</sub>O). The following are prepared (R and m.p. given): COCH:NOH, 180-1°; COCH:NNHCONH<sub>2</sub>, 219-20° (decomposition); COCH:NNHCSNH<sub>2</sub>, 201-2° (decomposition); CHCH:NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H-p, 214-15°; COCH:NNHCOC<sub>5</sub>H<sub>4</sub>N-4, 223-4.5°; COCH:NC(CH<sub>3</sub>)NH<sub>2</sub>, 185-7°. V (2 g.) in 80 ml. hot EtOH is boiled 1 hr. with the same volume of 10% K<sub>2</sub>CO<sub>3</sub> and the mixture cooled and acidified with dilute HCl to precipitate 5-(3-p-nitrophenyl-5-methyl-4-isoxazolyl)-1,2,4-triazine-3-thione, m. 216° (HCONMe<sub>2</sub>-H<sub>2</sub>O). IV (2.5 g.) in 60 ml. hot EtOH is boiled 1 hr. with 60 ml. 10% K<sub>2</sub>CO<sub>3</sub>, the solvent evaporated in vacuo, and the residue acidified to precipitate 5-(3-p-nitrophenyl-5-methyl-4-isoxazolyl)-1,2,4-triazin-3-one, m. 241-2° (AcOH). Glyoxal monohydrate (1 g.) in EtOH is treated with an aqueous solution of 0.45 g. KOH and the mixture kept overnight at room temperature, treated with ice, and acidified with dilute HCl to precipitate 3-(p-nitrophenyl-5-methyl-4-isoxazolyl)hydroxyacetic acid, m. 159-60° (H<sub>2</sub>O). Glyoxal hydrate (1 g.) in 20 ml. EtOH is treated with 30 ml. 40% formaldehyde and slowly with stirring 50 ml. concentrated NH<sub>3</sub> and the mixture kept overnight at room temperature, and diluted with water to precipitate 4-(3-p-nitrophenyl-5-methyl-4-isoxazolyl)imidazole, m. 213-14° (HCONMe<sub>2</sub>-water). The most biol. active compound is IV.

IT 13788-01-3F 13788-11-9P 13788-18-6F

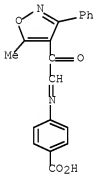
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 13788-07-3 ZCAPLUS

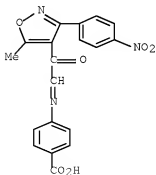
CN Benzoic acid, p-[[[(5-phenyl-3-isoxazolyl)carbonyl]methylene]amino]- (8CI)  
(CA INDEX NAME)

RN 13788-11-9 ZCAPLUS

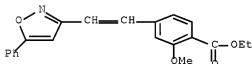
CN Benzoic acid, p-[[[(5-methyl-3-phenyl-4-isoxazolyl)carbonyl]methylene]amin  
o]- (8CI) (CA INDEX NAME)

RN 13788-18-6 ZCAPLUS

CN Benzoic acid, p-[[[(5-methyl-3-(p-nitrophenyl)-4-isoxazolyl)carbonyl]methylene]amino]- (8CI) (CA INDEX NAME)



L89 ANSWER 101 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1963:482229 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 59:82229  
 ORIGINAL REFERENCE NO.: 59:15267f-g  
 TITLE: Ability of the two methyl groups of the quaternary base of 3,5-dimethylisoxazole to couple. IV. Syntheses of diacylmethane derivatives.  
 AUTHOR(S): Lampe, W.; Smolinska, J.  
 CORPORATE SOURCE: Univ. Warsaw  
 SOURCE: Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Chimiques (1963), 11(2), 49-53  
 CODEN: BAPCAQ; ISSN: 0001-4095  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: Unavailable  
 AB CA 53,5243d. 3-[(4-Hydroxy-3-methoxybenzylidene)methyl]-5-phenylisoxazole EtI salt was converted to its 4'-carbethoxy analog (I), m. 135°. I was reduced with H-Pt to 1-phenyl-5-(4-hydroxy-3-methoxyphenyl)-3- iminopentan-1-one (II), m. 136° (100% yield), which with concentrated HCl gave the corresponding 1,3-pentanedione (III) m. 73.5° (60% yield). The corresponding 3'-ethoxy analogs were prepared, from I (m. 152°) (50% yield) from II (m. 133.5°) (100% yield), and from III (m. 112°) (60% yield). Infrared data indicate no absorption at 1700-1 cm., hence  $\beta$ -imino- and  $\beta$ -diketones are enolized or have intermol. H-bonds.  
 IT 94870-25-4P, o-Anisic acid, 4-[2-(5-phenyl-3-isoxazolyl)vinyl]-, ethyl ester  
 RL: PREP (Preparation)  
 (preparation of)  
 RN 94870-25-4 ZCAPLUS  
 CN o-Anisic acid, 4-[2-(5-phenyl-3-isoxazolyl)vinyl]-, ethyl ester (7CI) (CA INDEX NAME)



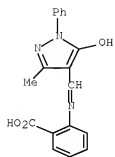
L89 ANSWER 102 OF 102 ZCAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1910:17866 ZCAPLUS [Full-text](#)  
 DOCUMENT NUMBER: 4:17866  
 ORIGINAL REFERENCE NO.: 4:3196b-i,3197a-i,3198a  
 TITLE: Indigoid Dyes. VI. Aliphatic Aromatic Compounds  
 AUTHOR(S): Felix, A.; Fried-Lander, P.  
 SOURCE: Monatshefte fuer Chemie (1910), 31, 55-79  
 CODEN: MOCMB7; ISSN: 0026-9247  
 DOCUMENT TYPE: *Journal*  
 LANGUAGE: Unavailable  
 OTHER SOURCE(S): CASREACT 4:17866  
 AB The synthesis of various indigoid dyes is here described; the blue nuance of indigo is least changed when the NH group is substituted by CH : CH. When substituted by the CONH there is a shifting to blue-violet, by S to a carmine-red, and CH2 and CO to a red-orange; maxima of absorption (Angstrom units) have been determined for the following: Bis-2-indoleindigo  $\lambda$ 6120, 2-naphthalene-2-indoleindigo  $\lambda$ 6440 and 5910, 2-isoquinolone-2-indoleindigo

λ5840, 2-thionaphthene-2- indoleindigo λ5790, 2-indane-2-indoleindigo λ4920, 2-indanone-2-indoleindigo λ3080. 2-Indane-2-indoleindigo (I), from equivalent parts ketohydrindene and isatin chloride, red needles; warming with H2SO4 gives a sulphonic acid. It is not attacked by NaOH (40%). Sublimes (decompose) in fine needles. 2-Indanone-2-indoleindigo (II), from equivalent parts diketohydrindene and α-isatin anilide, brownish violet needles. Boiling with dilute NaOH and addition of NaCl there separates, as a decompose product, the Na salt of 1-keto-3-hydroxyhydrindene-2-aldehyde, C10H6O3 (X). In the mother liquor anthranilic acid remains. The free aldehyde occurs in red needles, m. 139.5°. For the preparation of the coumaranone indigos dimethoxycoumaranone, C10H10O4, was first made by action of Me2SO4 and NaOH upon trihydroxychloroacetophenone, yellow needles m. 122.5-123°. When a dilute alkali and less Me2SO4 is used there results mono-methyldihydroxycoumaranone, C9H8O4, needles, m. 197°. The former compound gives with Br a mono- and a dibromo derivative Warming equivalent parts of α-isatin chloride and dimethoxycoumaranone yields a dimethoxycoumarane-2-indoleindigo (III), copper-red crystals. The hydroxymethoxycoumaranone with isatin chloride gives a similar dye, C17H11O5N, more easily attacked by alkali than dye (III). According to J. Prochazka the dimethoxy and hydroxymethoxycoumaranone unite readily with aldehydes (in presence of acid or alkali) to form O isologs of indogenides. The combination with BzH yields the compound (XIV), pale yellow prisms, m. 148-9°. Combination with salicylaldehyde yields the compound (XV), light orange-yellow needles, m. 240°. Combination with m-hydroxybenzaldehyde yields the compound, C17H14O5 yellow needles m. 202.5-203°. Combination with p-hydroxybenzaldehyde yields the compound, C17H14O5, citron-yellow. The most colored here is the o-derivative, the least the m-. Combination with protocatechuic aldehyde yields the compound (XVI), orange-yellow needles m. 217°. The dimethyl ether of this, m. 194-194.5°, results when piperonaldehyde is used. Hydroxymethoxycoumaranone condensed with piperonaldehyde yields an analogous compound C17H12O6, m. 190-190.5°. As with aldehyde so also dimethoxycoumaranone unites readily with β-naphthoquinone-4-sulphonic acid to form 2-hydroxynaphthalene-2-dimethoxycoumaranindolignone (XI), orange-brown needles, 1-oxy-3-isoquinoline-2-indoleindigo (IV), prepared from isatin chloride and dioxyisoquinoline. Dark blue needles. 1,3-Phenylmethyl-4-pyrazole-2-indoleindigo (VII), from phenylmethylpyrazolone and isatin-α-anilide, lustrous black plates, soluble without change in concentrate H2SO4 with red-brown color turning to a blue-red by dilution. The substance dissolves unacted upon in 10% NaOH solution but on boiling decomposes into anthranilic acid and the Na salt of 1,3-phenylmethyl-5- pyrazolone-4-aldehyde (IX), white needles, m. 173-4°. Of this aldehyde there was prepared the phenylhydrazone C17H16ON4, light yellow needles m. 159°; the aldehyde C32H22O2N6 orange needles m. 290°. The aldehyde unites quantitatively with anthranilic acid giving an azomethine (XII), light yellow needles m. 240°. When equivalent parts 3-methyl-pyrazolone and isatin anilide are warmed in PhNO2 solution there results 3-methyl-4-pyrazole-2-indoleindigo (VI), dark violet needles, dissolving to a carmin in most solvents and readily attacked by alkali. The condensation of HSCN with α-isatin anilide in Ac2O gives 5-thiazothiole-2-indoleindigo (V), black needles subliming to dark violet, 5-thiazolthiole-2-thionaphtheneindigo (xIII) results from thioisatin anilide and HSCN, red-brown needles. Dioxypyrimidine-2- indoleindigo (VIII) results from condensation of barbituric acid with α-isatin anilide; small crystals of metallic luster.

IT 661527-19-7P Anthranilic acid, N-(5-hydroxy-3-methyl-1-phenyl-4-pyrazolylmethylene)-  
 RL: PREP (Preparation)  
 (preparation of)  
 RN 861527-19-7 ZCAPLUS  
 CN Anthranilic acid, N-(5-hydroxy-3-methyl-1-phenyl-4-pyrazolylmethylene)-

10/517214

(ICI) (CA INDEX NAME)



=> d his full

(FILE 'HOME' ENTERED AT 07:40:12 ON 28 SEP 2007)

FILE 'ZCAPLUS' ENTERED AT 07:40:26 ON 28 SEP 2007

FILE 'REGISTRY' ENTERED AT 07:47:44 ON 28 SEP 2007

L1           STRUCTURE UPLOADED  
L2           STRUCTURE UPLOADED  
L3           19 SEA SSS SAM L2  
              D SCA  
L4           STRUCTURE UPLOADED  
L5           50 SEA SSS SAM L2 AND L4

FILE 'STNGUIDE' ENTERED AT 08:08:42 ON 28 SEP 2007  
D STAT QUE L5

FILE 'REGISTRY' ENTERED AT 08:16:31 ON 28 SEP 2007

L\*\*\* DEL 22011 S L2 AND L4 FULL SSS  
          D COST FULL  
          D STAT QUE L6  
L\*\*\* DEL 8082 S N2C3/ESS AND L6  
L6           STRUCTURE UPLOADED  
L7           50 SEA SSS SAM L2 AND L4 AND L6  
L8           SCREEN 1840  
L9           50 SEA SSS SAM L2 AND L4 AND L6 AND L8  
L\*\*\* DEL 49 S L7 NOT L9  
L\*\*\* DEL 49 S L9 NOT L7  
L\*\*\* DEL 1 S L9 NOT L11  
          D SCA  
L\*\*\* DEL 50 S L9 AND NRS>2  
L\*\*\* DEL 50 S L7 AND NRS>2  
          D STAT QUE L9  
L10          STRUCTURE UPLOADED  
L11          41 SEA SSS SAM L2 AND L10 AND L8  
L12          775523 SEA ABB=ON PLU=ON N2C3/ES OR N2C3/ES  
L13          30896 SEA ABB=ON PLU=ON NSC3/ES  
L14          805906 SEA ABB=ON PLU=ON L12 OR L13  
L15          464 SEA ABB=ON PLU=ON NPC3/ES  
L16          806370 SEA ABB=ON PLU=ON (L13 OR L14 OR L15)  
L17          50 SEA SUB=L16 SSS SAM L2  
          D L4  
          D STAT QUE L17  
L18          61080 SEA SUB=L16 SSS FUL L2  
          SAVE TEMP L18 JAI214STR2BL/A  
L19          STRUCTURE UPLOADED  
L20          50 SEA SUB=L16 SSS SAM L19  
L21          71084 SEA SUB=L16 SSS FUL L19  
          SAVE TEMP JAI214STR19B/A L21

FILE 'STNGUIDE' ENTERED AT 08:47:53 ON 28 SEP 2007

FILE 'REGISTRY' ENTERED AT 08:51:10 ON 28 SEP 2007

L22          STRUCTURE UPLOADED  
L23          STRUCTURE UPLOADED  
L24          50 SEA SUB=L21 SSS SAM L23  
          D STAT QUE L24  
L25          31522 SEA SUB=L21 SSS FUL L23

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L26           SAVE TEMP JAI214STR23B/A L25  
              STRUCTURE UPLOADED

FILE 'STNGUIDE' ENTERED AT 09:08:21 ON 28 SEP 2007

L27           FILE 'REGISTRY' ENTERED AT 09:35:02 ON 28 SEP 2007  
              STRUCTURE UPLOADED  
L28           50 SEA SUB=L25 SSS SAM L27  
L29           STRUCTURE UPLOADED  
L30           50 SEA SUB=L25 SSS SAM L29  
L31           STRUCTURE UPLOADED  
L32           20 SEA SUB=L25 SSS SAM L31

FILE 'STNGUIDE' ENTERED AT 09:54:10 ON 28 SEP 2007

L33           FILE 'REGISTRY' ENTERED AT 09:56:28 ON 28 SEP 2007  
              STRUCTURE UPLOADED  
L34           15 SEA SUB=L25 SSS SAM L33  
              D SCA  
L35           262 SEA SUB=L25 SSS FUL L33  
              SAVE TEMP L35 JAI214STR33L/A

FILE 'ZCAPLUS' ENTERED AT 10:00:32 ON 28 SEP 2007

L36           82 SEA ABB=ON PLU=ON L35

FILE 'REGISTRY' ENTERED AT 10:00:47 ON 28 SEP 2007

FILE 'ZCAPLUS' ENTERED AT 10:02:22 ON 28 SEP 2007  
              E US2005-517214/APPS  
L37           1 SEA ABB=ON PLU=ON US2005-517214/AP  
              D SCA  
              SEL RN

L38           FILE 'REGISTRY' ENTERED AT 10:03:00 ON 28 SEP 2007  
              876 SEA ABB=ON PLU=ON (100-39-0/BI OR 100-51-6/BI OR 103324-26-1/  
              BI OR 103626-03-5/BI OR 105170-18-1/BI OR 107-08-4/BI OR  
              107-18-6/BI OR 109492-77-5/BI OR 111196-81-7/BI OR 111493-88-0/  
              BI OR 1140-69-8/BI OR 114474-04-3/BI OR 116-53-0/BI OR  
              119-36-8/BI OR 123-25-1/BI OR 123374-28-7/BI OR 128796-39-4/BI  
              OR 139-85-5/BI OR 140-88-5/BI OR 141-75-3/BI OR 14191-95-8/BI  
              OR 14199-15-6/BI OR 1423-26-3/BI OR 1423-27-4/BI OR 148-53-8/BI  
              OR 148872-79-1/BI OR 149490-75-5/BI OR 152270-53-6/BI OR  
              152468-10-5/BI OR 152608-83-8/BI OR 1556-18-9/BI OR 15802-80-9/  
              BI OR 15964-81-5/BI OR 15971-92-3/BI OR 16063-70-0/BI OR  
              160721-25-5/BI OR 16110-09-1/BI OR 167762-83-6/BI OR 1700-30-7/  
              BI OR 171817-14-4/BI OR 1722-10-7/BI OR 174607-36-4/BI OR  
              176214-15-6/BI OR 178547-21-2/BI OR 18368-64-4/BI OR 19438-10-9  
              /BI OR 2011-06-5/BI OR 20349-89-7/BI OR 20921-09-9/BI OR  
              20921-14-6/BI OR 209404-16-0/BI OR 20967-96-8/BI OR 212688-07-8  
              /BI OR 2150-44-9/BI OR 220380-56-3/BI OR 23795-02-0/BI OR  
              24214-73-1/BI OR 258506-68-2/BI OR 26691-25-8/BI OR 26691-27-0/  
              BI OR 26691-29-2/BI OR 27772-62-9/BI OR 29682-12-0/BI OR  
              32884-23-4/BI OR 32884-25-6/BI OR 328919-24-0/BI OR 33252-28-7/  
              BI OR 33577-16-1/BI OR 342023-83-0/BI OR 342023-88-5/BI OR  
              342023-90-9/BI OR 342024-10-6/BI OR 342024-14-0/BI OR 342024-99  
              -1/BI OR 342026-17-9/BI OR 35857-89-7/BI OR 367259-04-9/BI OR  
              36873-42-4/BI OR 372-48-5/BI OR 38275-43-3/BI OR 394-50-3/BI  
              OR 3950-18-3/BI OR 39890-95-4/BI OR 40914-19-0/BI OR 415949-73-  
              4/BI OR 42058-59-3/BI OR 42558-54-3/BI OR 4328-92-1/BI OR  
              433929-49-8/BI OR 4358-87-6/BI OR 441356-47-4/BI OR 441356-57-6

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/BI OR 441356-75-8/BI OR 4548-45-2/BI OR 464185-06-6/BI OR
464185-07-7/BI OR 464185-08-8/BI OR 464185-09-9/BI OR 464185-10
-2/BI OR 464185-11-3/BI OR 464185-12-4/BI OR 464185-13-5/BI OR
464185-14-6/BI OR 464185-15-7/BI OR 464185-
L39      0 SEA ABB=ON PLU=ON L35 AND L38
L40      379 SEA ABB=ON PLU=ON L25 AND L38
L41      50 SEA SUB=L25 SSS SAM L19
L42      15 SEA SUB=L35 SSS SAM L19
          D STAT QUE L30
L43      16848 SEA SUB=L25 SSS FUL L29
          SAVE TEMP L43 JAI214STR29B/A
L44      STRUCTURE UPLOADED
L45      STRUCTURE UPLOADED
L46      STRUCTURE UPLOADED
L47      50 SEA SUB=L43 SSS SAM L46
L48      8395 SEA SUB=L43 SSS FUL L46
          SAVE TEMP L48 JAI214STR46B/A
L49      3169 SEA ABB=ON PLU=ON L48 AND NRS<4
          E "PROPANOIC ACID, 2-METHYL-2-((4-(2-((3-METHYL-1-[4-(TRIFLUORO
L50      1 SEA ABB=ON PLU=ON "PROPANOIC ACID, 2-METHYL-2-((4-(2-((3-METH
          YL-1-(4-(TRIFLUOROMETHOXY)PHENYL)-1H-PYRAZOL-5-YL)AMINO)ETHYL)-
          2-THIAZOLYL)THIO)-, MONOHYDROCHLORIDE"/CN
          D SCA
          D RSD
L51      1312 SEA ABB=ON PLU=ON L49 AND 16.165.12/RID
L52      29 SEA ABB=ON PLU=ON L49 AND 16.299.11/RID
L53      309 SEA ABB=ON PLU=ON L40 AND L51

FILE 'ZCAPLUS' ENTERED AT 10:33:46 ON 28 SEP 2007
L54      326 SEA ABB=ON PLU=ON L51
L*** DEL      0 S L48 AND NOC3/ES

FILE 'REGISTRY' ENTERED AT 10:34:26 ON 28 SEP 2007
L55      1569 SEA ABB=ON PLU=ON L48 AND NOC3/ES
          E "BENZOIC ACID, 4-(((5-METHYL-3-PHENYL-4-ISOXAZOLYL)CARBONYL)
L56      1 SEA ABB=ON PLU=ON "BENZOIC ACID, 4-(((5-METHYL-3-PHENYL-4-IS
          OXAZOLYL)CARBONYL)AMINO)METHYL)-, METHYL ESTER"/CN
          D RSD
L57      785 SEA ABB=ON PLU=ON 16.167.5/RID AND L49
L58      2091 SEA ABB=ON PLU=ON L51 OR L57
L59      323 SEA ABB=ON PLU=ON L58 AND L38
L60      56 SEA ABB=ON PLU=ON L40 NOT L59
L61      63 SEA ABB=ON PLU=ON NSC3/ES AND L48
          E "BUTANOIC ACID, 2-METHYL-2-(4-((3-(4-(TRIFLUOROMETHYL)PHENYL)
L62      1 SEA ABB=ON PLU=ON "BUTANOIC ACID, 2-METHYL-2-(4-((3-(4-(TRIFL
          UOROMETHYL)PHENYL)-5-ISOTHIAZOLYL)METHOXY)PHENOXY)-"/CN
          D RSD
L63      5 SEA ABB=ON PLU=ON 16.171.9/RID AND L49
          D SCA
L64      2096 SEA ABB=ON PLU=ON L58 OR L63

FILE 'ZCAPLUS' ENTERED AT 10:43:52 ON 28 SEP 2007
L65      383 SEA ABB=ON PLU=ON L64

FILE 'STNGUIDE' ENTERED AT 10:44:00 ON 28 SEP 2007

FILE 'REGISTRY' ENTERED AT 10:59:55 ON 28 SEP 2007

FILE 'ZCAPLUS' ENTERED AT 11:00:50 ON 28 SEP 2007
L66      108 SEA ABB=ON PLU=ON L65 AND J/DIT

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L67 275 SEA ABB=ON PLU=ON L65 AND P/DT  
 L68 26 SEA ABB=ON PLU=ON L66 AND PY<2003  
 L69 78 SEA ABB=ON PLU=ON L67 AND PD<20020524  
 L70 119 SEA ABB=ON PLU=ON L67 AND PRD<20020524  
 L71 97 SEA ABB=ON PLU=ON L67 AND AD<20020524  
 L72 104 SEA ABB=ON PLU=ON L68 OR L69

FILE 'REGISTRY' ENTERED AT 11:02:28 ON 28 SEP 2007

FILE 'ZCAPLUS' ENTERED AT 11:02:39 ON 28 SEP 2007  
 L73 TRA PLU=ON L72 1- RN : 12797 TERMS

FILE 'REGISTRY' ENTERED AT 11:02:50 ON 28 SEP 2007  
 L74 12797 SEA ABB=ON PLU=ON L73  
 L75 459 SEA ABB=ON PLU=ON L74 AND L64

FILE 'ZCAPLUS' ENTERED AT 11:08:18 ON 28 SEP 2007  
 L76 1945 SEA ABB=ON PLU=ON MAEKAWA T?/AU  
 L77 497 SEA ABB=ON PLU=ON HARA R?/AU  
 L78 263 SEA ABB=ON PLU=ON ODAKA H?/AU  
 L79 7435 SEA ABB=ON PLU=ON KIMURA H?/AU  
 L80 14 SEA ABB=ON PLU=ON MIZUFUNE H?/AU  
 L81 169 SEA ABB=ON PLU=ON FUKATSU K?/AU  
 L82 2 SEA ABB=ON PLU=ON L72 AND (L76 OR L77 OR L78 OR L79 OR L80  
 OR L81)  
 L83 11 SEA ABB=ON PLU=ON L76 AND (L77 OR L78 OR L79 OR L80 OR L81)  
 L84 1 SEA ABB=ON PLU=ON L77 AND (L78 OR L79 OR L80 OR L81)  
 L85 15 SEA ABB=ON PLU=ON L78 AND (L79 OR L80 OR L81)  
 L86 1 SEA ABB=ON PLU=ON L79 AND (L80 OR L81)  
 L87 1 SEA ABB=ON PLU=ON L80 AND L81  
 L88 20 SEA ABB=ON PLU=ON (L82 OR L83 OR L84 OR L85 OR L86 OR L87)  
 D SCA L82

FILE 'REGISTRY' ENTERED AT 11:12:15 ON 28 SEP 2007

FILE 'ZCAPLUS' ENTERED AT 11:12:20 ON 28 SEP 2007  
 D STAT QUE L88  
 D IBIB ABS HITIND L88 1-20

FILE 'REGISTRY' ENTERED AT 11:13:54 ON 28 SEP 2007

FILE 'ZCAPLUS' ENTERED AT 11:13:57 ON 28 SEP 2007  
 D STAT QUE L72  
 L89 102 SEA ABB=ON PLU=ON L72 NOT L88  
 D IBIB ABS HITSTR L89 1-102

FILE HOME

FILE ZCAPLUS

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10/517214

FILE COVERS 1907 - 28 Sep 2007 VOL 147 ISS 15  
FILE LAST UPDATED: 27 Sep 2007 (20070927/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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STRUCTURE FILE UPDATES: 26 SEP 2007 HIGHEST RN 948239-70-1  
DICTIONARY FILE UPDATES: 26 SEP 2007 HIGHEST RN 948239-70-1

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<http://www.cas.org/support/stngen/stdoc/properties.html>

#### FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 24, 2007 (20070924/UP).

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